International Journal Of Advance Research, Ideas And Innovations In Technology

VOLUME 6 - ISSUE 2

# IJARIIT

# SPECTRUM

International Journal of Advance Research, Ideas and Innovations in Technology

March-April, 2020

| 165 | 389 | 111 | 6 |
|---|---|---|---|
| PAPERS | AUTHORS | INSTITUTIONS | COUNTRIES |

## INSIDE THIS ISSUE

Experimental Investigation of Datura Stramonium Biodiesel p. 1

Implementation of Artificial Intelligence in Motels p. 6

Brain Tumor Analysis using Convolutional Neural Network with MRI Images p. 7

# IJARIIT SPECTRUM

Spectrum is an e-magazine with the comprehensive collection of all the papers that have been published in our journal over the last two months — Volume 6, Issue 2 (March-April, 2020). This edition brings together 165 papers by 389 authors from 111 institutions. Each entry links to the abstract and the full paper.

# ABOUT IJARIIT

Our motto: to promote originality in thinking, backed by sincere and honest research.

International Journal of Advance Research, Ideas and Innovations in Technology is an open-access, peer-reviewed journal. We make publishing simple and transparent, so researchers can focus on their work:

- Online submission, free of charge
- Review result usually within 2 hours
- Updates by email and WhatsApp at every step
- Track your paper online with your tracking key
- One publication fee for all authors, paid only after acceptance
- Published online within 48 hours of payment
- e-Certificate for every author




e-ISSN 2454-132X

# THIS EDITION AT A GLANCE

© 2020, IJARIIT.COM All Rights Reserved

| Research areas | | Authors by country | |
|---|---|---|---|
| Statistics | 12 | India | 158 |
| Electronics And CommunicationEngineering | 11 | Malaysia | 2 |
| Mechanical Engineering | 9 | Thailand | 2 |
| Computer Science Engineering | 6 | Indonesia | 1 |
| Computer Science | 6 | Saudi Arabia | 1 |
| Information Technology | 5 | Egypt | 1 |

© 2020, IJARIIT.COM All Rights Reserved

# Indexing of Volume 6 – Issue 2


| S. No | Title | Page Number | Links |
|---|---|---|---|
| 1. | **Experimental Investigation of Datura Stramonium Biodiesel**<br>*Ashutosh Gupta*<br>**Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, Tamil Nadu** | 1-5 | View Abstract<br>Download PDF |
| 2. | **Implementation of Artificial Intelligence in Motels**<br>*Keerthana P.*<br>**Jain University, Bengaluru, Karnataka** | 6-6 | View Abstract<br>Download PDF |
| 3. | **Brain Tumor Analysis using Convolutional Neural Network with MRI Images**<br>*Deepalakshmi K., Priyavadhana S. R., Hannah Elezebath M. A., Jetlin C. P.*<br>**Agni College of Technology, Thalambur, Tamil Nadu** | 7-10 | View Abstract<br>Download PDF |
| 4. | **Cloud based web integrated development environment**<br>*S. Saparna, Manoj R., Dhivyananthan R., Kanagasabapathy T.*<br>**Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu** | 11-13 | View Abstract<br>Download PDF |
| 5. | **Bitcoin Prices (Statistical Analysis)**<br>*Tanmay Gupta*<br>**SVKM's Narsee Monjee Institute of Management Studies, Mumbai, Maharashtra** | 14-16 | View Abstract<br>Download PDF |
| 6. | **Fruit quality detection using machine vision techniques**<br>*S. Krishna Kumar, J. Kaviya, G. Dilip Prakash, K. Srinivasan*<br>**Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu** | 17-22 | View Abstract<br>Download PDF |
| 7. | **An experimental investigation of natural soil stabilized with sewage sludge for flexible pavement**<br>*Sumi Shrivastava, P. K. Singhai, Veena Mandlekar*<br>**LNCT Group of Colleges, Bhopal, Madhya Pradesh, Lakshmi Narain College of Technology, Bhopal, India** | 23-28 | View Abstract<br>Download PDF |
| 8. | **Is the level of happiness related to the number of hours of sleep amongst students?**<br>*Smit Modi*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 29-31 | View Abstract<br>Download PDF |
| 9. | **Historical Sensex closing prices**<br>*Akshat Mittal*<br>**Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 32-34 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 10. | **Optimal Load Balancing and cloud resource management by space shared scheduling technique**<br>*Amreen Kubra, P. Anlet Pamila Suhi*<br>**Er. Perumal Manimekalai College of Engineering, Hosur, Tamil Nadu** | 35-37 | View Abstract<br>Download PDF |
| 11. | **Challenges of Governance in India**<br>*Shakeel Ahmed*<br>**Maulana Azad National Urdu University, Hyderabad, Telangana** | 38-40 | View Abstract<br>Download PDF |
| 12. | **Artificial Neural Network paradigm for cost-effective networks**<br>*Vinutha*<br>**Presidency University, Bengaluru, Karnataka** | 41-47 | View Abstract<br>Download PDF |
| 13. | **Yes Bank Performance**<br>*Devansh S. Babaria*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 48-50 | View Abstract<br>Download PDF |
| 14. | **Foreign Exchange Rate**<br>*Divyanshi Agrawal*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 51-53 | View Abstract<br>Download PDF |
| 15. | **India monthly temperatures – A statistical analysis**<br>*Aakash Sarkar*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 54-56 | View Abstract<br>Download PDF |
| 16. | **Evaluation of Gross Domestic Product in India**<br>*Rohan*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 57-59 | View Abstract<br>Download PDF |
| 17. | **Do the share prices of a company affects the sensex prices?**<br>*Suyash Saxena*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 60-61 | View Abstract<br>Download PDF |
| 18. | **Match and runs scored**<br>*Yash Asrani*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 62-69 | View Abstract<br>Download PDF |
| 19. | **Statistical analysis of deaths from COVID-19 in Hubei, China**<br>*Parth Jain*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 70-72 | View Abstract<br>Download PDF |
| 20. | **Aditya Birla Capital Limited share analysis**<br>*Umang Aggarwal*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 73-77 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 21. | **A study on problems faced by the consumers' towardsgreen FMCG products in Coimbatore City**<br>*S. Kalaiselvi, Dr. D. Parasakthi*<br>**Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu** | 78-81 | View Abstract<br>Download PDF |
| 22. | **IoT based vehicle emission monitoring system**<br>*Harish Bhashkar Domale, Pratik Ulhas Jogdande, Dhondiba Ram Fadatare, Prachi Ganesh Lohar, Shubham Ratnakar Bodake, M. V. Mane*<br>**D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra** | 82-84 | View Abstract<br>Download PDF |
| 23. | **Research paper on import of medicines originated in India and outside Indian borders**<br>*Smeet Kiri*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 85-88 | View Abstract<br>Download PDF |
| 24. | **Analysis of the impact that hours studied in a day has on percentage scored in 12th**<br>*Gaurav Makhija*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 94-103 | View Abstract<br>Download PDF |
| 25. | **Study of movement of gold price rates in terms of USD and INR**<br>*Riddhi P. Bhatt*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 104-107 | View Abstract<br>Download PDF |
| 26. | **Consumer Price Index and Index of Industrial Production and its impact on the Dow Jones**<br>*Muskaan Nagori*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 108-111 | View Abstract<br>Download PDF |
| 27. | **Research Paper about SPEcint 2006**<br>*Navya Maheshwari*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 112-116 | View Abstract<br>Download PDF |
| 28. | **Without human automatic car tariff collection system**<br>*Atanu Wadadar, Sudip Paul*<br>**Narula Institute of Technology, Kolkata, West Bengal** | 117-118 | View Abstract<br>Download PDF |
| 29. | **Research Paper about Counter Strike Global Offensive**<br>*Aayush Rathi*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 119-122 | View Abstract<br>Download PDF |
| 30. | **Age vs. Travel**<br>*Dishan Gosar*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 123-132 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 31. | **Analysis of relation between number of members in afamily and number of vehicles per family**<br>*Shubh Bheda*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 133-143 | View Abstract<br>Download PDF |
| 32. | **Investigation on power quality assessment in data centre**<br>*S. Arivazhagan, P. Sivaraman*<br>**Independent Researcher** | 144-148 | View Abstract<br>Download PDF |
| 33. | **Analysis of orders by an average retail store**<br>*Malak Chheda*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 149-152 | View Abstract<br>Download PDF |
| 34. | **Analysis of relation between units sold and total profit**<br>*Yash Sarna*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 153-155 | View Abstract<br>Download PDF |
| 35. | **Average stock price comparison of HUL and ITC limited**<br>*Mohammed Jabalpurwala*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 156-158 | View Abstract<br>Download PDF |
| 36. | **Statistical analysis of birth rate in India**<br>*Meherzad Bhadha*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 159-161 | View Abstract<br>Download PDF |
| 37. | **Impact of a drug on cancer**<br>*Reet Bhansali*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 162-166 | View Abstract<br>Download PDF |
| 38. | **How does total population of India get affected by change in birth rate?**<br>*Isha Dhakad*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 167-168 | View Abstract<br>Download PDF |
| 39. | **Mobile phone buying behavior of people**<br>*Muskaan Mehta*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 169-178 | View Abstract<br>Download PDF |
| 40. | **Bollywood music analysis**<br>*Ruhi Khanna*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 179-181 | View Abstract<br>Download PDF |
| 41. | **Health expenditure and GDP**<br>*Sukanya Aggarwal*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 182-186 | View Abstract<br>Download PDF |
| 42. | **Sales by AVAISS**<br>*Yash Lodha*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 187-189 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 43. | **Analysis of the 10-yearly US Government Bond yield**<br>*Pranjal Mukhija*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 190-192 | View Abstract<br>Download PDF |
| 44. | **Analysis on shares: Effects of high price and low price on shares traded**<br>*Yugam Goenka*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 193-208 | View Abstract<br>Download PDF |
| 45. | **Research paper on Ebola Virus outbreak**<br>*Mustafa Thanawala*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 209-211 | View Abstract<br>Download PDF |
| 46. | **Quantitative Techniques**<br>*Darsh Torani*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 212-226 | View Abstract<br>Download PDF |
| 47. | **Analysis of relation between quantity and sales**<br>*Labdhi Jain*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra, India** | 227-228 | View Abstract<br>Download PDF |
| 48. | **SSO Protocol Performance Testing**<br>*Rackymuthu, Buvaneswari*<br>**Government Arts College, Coimbatore, Tamil Nadu** | 229-233 | View Abstract<br>Download PDF |
| 49. | **Instantaneous Battlefield Gun (IBG)**<br>*Smitha Rani Sahu, Srivatsa Lasya Priya O, Sunkari Sanghavi, Surisetti Maheshwari, Dr. Esther Sunanda Bandaru*<br>**Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh** | 234-238 | View Abstract<br>Download PDF |
| 50. | **Image retrieval using chromatic histogram based on color extraction**<br>*D. Ananth, K. Ayyapparaja*<br>**Theni Kammavar Sangam College of Technology, Theni, Tamil Nadu** | 239-241 | View Abstract<br>Download PDF |
| 51. | **Statistical analysis of exchange rate of New Zealand Dollar**<br>*Sagar Abrol*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 242-245 | View Abstract<br>Download PDF |
| 52. | **Estimation of sensory nutritive qualities of flaxseed cookies and it's preparation**<br>*Shreya Wadbudhe, Rupali Deshmukh, Vaishali Dasriya*<br>**Sau Vasudhatai Deshmukh College of Food Technology, Amravati, Maharashtra, ICAR-National Dairy Research Institute, Karnal, Haryana** | 246-248 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 53. | **A comparative analysis of seventh party logistics using AHP and FAHP**<br>*J. Praveena, M. Pramila Devi*<br>**Andhra University College of Engineering, Visakhapatnam, Andhra Pradesh** | 249-253 | View Abstract<br>Download PDF |
| 54. | **A Brief Introduction on Artificial Intelligence**<br>*Mohammed Ahmed Ali*<br>**BMS College of Engineering, Bangalore, Karnataka** | 254-257 | View Abstract<br>Download PDF |
| 55. | **Automatic street light intensity control**<br>*Prakash V., Pavithra D., Nisha R., Nishanthini P.*<br>**Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu** | 258-261 | View Abstract<br>Download PDF |
| 56. | **Impact of Modi Government on Stock Market Returns**<br>*Harsh Arora*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 262-265 | View Abstract<br>Download PDF |
| 57. | **IoT based intelligent jacket**<br>*Pratiksha Patil, Dhanashree A. Kambli, Rishikesh Vanjare, Siddhi A. Kolekar, Ravina R. Kurane, M. A. Pardesi*<br>**D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra** | 266-269 | View Abstract<br>Download PDF |
| 58. | **The effective vocabulary learning strategies employed by ESL learners in rural setting**<br>*Puspanathan Subramaniam, Dr. Parilah Md. Shah*<br>**National University of Malaysia, Selangor, Malaysia, Faculty of Education, Selangor, Malaysia** | 270-275 | View Abstract<br>Download PDF |
| 59. | **E-Commerce REST API with JWT authentication**<br>*Mariam Ahmedullah*<br>**ISL Engineering College, Hyderabad, Telangana** | 276-280 | View Abstract<br>Download PDF |
| 60. | **Impact of tourism in India due to Coronavirus**<br>*Ravishankar Balakrishnan, Prabu B. Christopher*<br>**Vellore Institute of Technology, Vellore, Tamil Nadu** | 281-282 | View Abstract<br>Download PDF |
| 61. | **Statistical analysis of exchange rate of Australian Dollar**<br>*Anshika Tyagi*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 283-286 | View Abstract<br>Download PDF |
| 62. | **A real-time autonomous waste-collecting robot**<br>*Pratheepkumar V., Prabha K. S., Prabakar K.*<br>**Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu** | 287-289 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 63. | **E-Challan Generation using QR code**<br>*Gouri Chavan, Megha Khot, Panchshila Kamble*<br>**D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra** | 290-292 | View Abstract<br>Download PDF |
| 64. | **Impact of employee involvement on organizational performance – A study of Visakhapatnam Steel Plant**<br>*B. V. S. P. R. Vithal, Dr. Naga Raju Battu*<br>**Acharya Nagarjuna University, Guntur, Andhra Pradesh** | 293-296 | View Abstract<br>Download PDF |
| 65. | **Semi Autonomous Firefighting Drone**<br>*S. Krishna Prasad, A. Karthikeyan, Kiran Tom Gijo, S. Dhanasekaran*<br>**Rajalakshmi Engineering College, Chennai, Tamil Nadu** | 297-300 | View Abstract<br>Download PDF |
| 66. | **Analysis of ECG signals for detection of sleep apnea**<br>*Harshitha Uppala, Ratna Prakash*<br>**K L University, Vaddeswaram, Andhra Pradesh** | 301-305 | View Abstract<br>Download PDF |
| 67. | **Fake news analyzer**<br>*Ruchika Mahajan, Sanskruti Godbole, Vedanti Manjule, Prasanna Lohe*<br>**Cummins College of Engineering for Women, Nagpur, Maharashtra** | 306-308 | View Abstract<br>Download PDF |
| 68. | **Estimation of chemical and sensory aspect of oats and dates chocolate**<br>*Sarvesha Dendavey, Nikhil Deshmukh*<br>**Sau Vasudhatai Deshmukh College of Food Technology, Amravati, Maharashtra** | 309-311 | View Abstract<br>Download PDF |
| 69. | **Advanced Medical Chatbot based on named data networking**<br>*Anup Lengure, Pratik Gaikwad, Ashutosh Chaudhari, Aditya Deshpande*<br>**Trinity College of Engineering and Research, Pune, Maharashtra** | 312-314 | View Abstract<br>Download PDF |
| 70. | **Snake robot for metal detection**<br>*Sasanka Pavani Somarouthu, Siraparapu Renuka, Sasanapuri Sameera, Shaik Sharifa*<br>**Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh** | 315-317 | View Abstract<br>Download PDF |
| 71. | **Synthesis and anti-inflammatory activity of some 2-(3'-aminesubstituted)-7- hydroxyl-4H-1-benzopyran-4-one derivatives**<br>*Awinash Chavan, Prafulla Sabale*<br>**Raosaheb Patil Danve College of Pharmacy, Badnapur, Maharashtra, R. T. M. Nagpur University, Nagpur, Maharashtra** | 318-321 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 72. | **Design and fabrication of solar air cooler cum room heater by using Peltier Effect**<br>*Yogita Jagannath Jadhav, Suruchi Ulhas Pednekar, Kalyani Shelke, Snehal Shinde*<br>**New Horizon Institute of Technology and Management, Thane, Maharashtra** | 322-325 | View Abstract<br>Download PDF |
| 73. | **Design and modification of smart stick for visually impaired with stick finder**<br>*Nagma Salim Khan, Ankita Ashok Gaud, Harsha Rajesh Khanvilkar, Rasika Nishikant Shelar*<br>**New Horizon Institute of Technology and Management, Thane, Maharashtra** | 326-328 | View Abstract<br>Download PDF |
| 74. | **Impact of industrial democracy on job satisfaction, commitment and engagement of employees: A study of Visakhapatnam steel plant**<br>*B. V. S. P. R. Vithal, Dr. Naga Raju Battu*<br>**Acharya Nagarjuna University, Guntur, Andhra Pradesh** | 329-333 | View Abstract<br>Download PDF |
| 75. | **A critical review on performance of solar air heaters technologies and techniques**<br>*Dr. Ashwini Kumar, Avinash, Suresh Kumar Badholiya, Rohit Kumar Chaudhry*<br>**National Institute of Technology, Jamshedpur, Jharkhand, Bhopal Institute of Technology and Science, Bhopal, Madhya Pradesh** | 334-354 | View Abstract<br>Download PDF |
| 76. | **A pre-experimental study to assess the effectiveness of plan teaching program on knowledge regarding prevention of sexual abuse among the adolescent girl (age 12-15 year) in selected school of Puliyangudi.**<br>*Velladurai N.*<br>**Rohilkhand Medical College, Bareilly, Uttar Pradesh** | 355-356 | View Abstract<br>Download PDF |
| 77. | **Pre Experimental study to assess effectiveness of awareness programme on knowledge regarding alcohol abuse and its treatment among the boys of nursing students in S.G.R.R.I.M.& H.S College of Nursing Dehradun Uttarakhand.**<br>*Gaurav Pratap Singh*<br>**Keshlata School of Nursing, Bareilly, Uttar Pradesh, India** | 357-358 | View Abstract<br>Download PDF |
| 78. | **Analytical overview of defuzzification methods**<br>*K. S. Gilda, Dr. S. L. Satarkar*<br>**College of Engineering and Technology, Akola, Maharashtra** | 359-365 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 79. | **A literature review on physio-chemical parameters of domestic grey water of residential building**<br>*Ar. Niranjan Vilas Sangawar*<br>**SPSMBH's College of Architecture, Kolhapur, Maharashtra** | 366-370 | View Abstract<br>Download PDF |
| 80. | **Artificial Intelligence in Software Defined Networking**<br>*Arhaan Aggarwal*<br>**Independent Researcher** | 371-379 | View Abstract<br>Download PDF |
| 81. | **Auto maintenance of poultry farm**<br>*Oviya M., Susan Mano Derry V., Pavithira B., Nesavi S.*<br>**JEPPIAAR SRR Engineering College, Chennai, Tamil Nadu** | 380-382 | View Abstract<br>Download PDF |
| 82. | **Image de-noising and segmentation based on Fuzzy C-means clustering using Gaussian Noise**<br>*D. Deepan, N. Vishal, Devanshu Gedam, G. Hari Aditya, V. Reji*<br>**SRM Institute of Science and Technology, Chennai, Tamil Nadu** | 383-386 | View Abstract<br>Download PDF |
| 83. | **Performance analysis of low power 1-Bit CMOS full adder**<br>*Nafies, Jenith K., Gowtham I. R., Arun Samuel T. S.*<br>**National Engineering College, Kovilpatti, Tamil Nadu** | 387-389 | View Abstract<br>Download PDF |
| 84. | **Defect detection in Mango fruit using Image Processing**<br>*Shruti Padmanaban, Shobhana M., L. N. Sneha Narasimhan*<br>**SRM Institute of Science and Technology, Chennai, Tamil Nadu** | 390-391 | View Abstract<br>Download PDF |
| 85. | **Adapted 8Ds methodology in manufacturing industries for securing customer's need**<br>*Tri Wahjoedi*<br>**STIE Mahardhika Surabaya, Indonesia** | 392-395 | View Abstract<br>Download PDF |
| 86. | **Factors affecting the buying decision process of consumers using food delivery Apps in Bangalore**<br>*Medida Ragh Satya Sai*<br>**Christ (Deemed To Be University), Bengaluru, Karnataka** | 396-401 | View Abstract<br>Download PDF |
| 87. | **Transformation of number system**<br>*Manjeet Singh*<br>**Parul University, Vadodara, Gujarat** | 402-406 | View Abstract<br>Download PDF |
| 88. | **Design and force analysis of sheet metal operations using press tool for plate leveler**<br>*Akshay P. Gajare, Sanjeev B. Naik*<br>**Walchand Institute of Technology, Solapur, Maharashtra** | 407-411 | View Abstract<br>Download PDF |
| 89. | **Online Auction**<br>*Angelina Francis, Sakshi Lanjewar*<br>**Anjuman College of Engineering and Technology, Nagpur, Maharashtra** | 412-414 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 90. | **Cryptocurrency Fluctuations**<br>*Samrth Kanungo*<br>**NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra** | 415-420 | View Abstract<br>Download PDF |
| 91. | **SHARONLAY: A new approach for post endodontic restorations: A Case Report**<br>*Dr. Seema D. Pathak, Dr. Darshana Kale, Dr. Pradnya V. Bansode, Dr. M. B. Wavdhane*<br>**Government Dental College and Hospital, Aurangabad, Maharashtra** | 421-425 | View Abstract<br>Download PDF |
| 92. | **Estimation of the land surface temperature using Landsat data 8 and 5: A comparative analysis of an industrial area from Rajasthan, India**<br>*Deepika Vashishtha, Seeta Meena, Amit Sharma*<br>**Aligarh Muslim University, Aligarh, Uttar Pradesh, University of Rajasthan, Jaipur, Rajasthan** | 426-436 | View Abstract<br>Download PDF |
| 93. | **Review of heat transfer enhancement techniques**<br>*Kailash Kale, Saurabh Jadhav, Nandkishor Sutar, Shubham Pardeshi, Sourabh Howale*<br>**Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra** | 437-439 | View Abstract<br>Download PDF |
| 94. | **High-Density Immune Vaccine (HDIV) to be explored for fighting COVID-19**<br>*Rani Amol More*<br>**MIPL, Mumbai, Maharashtra** | 440-441 | View Abstract<br>Download PDF |
| 95. | **Production and optimization of ethanol production from spent tea waste using Saccharomyces cerevisiae**<br>*Satya Rama Devi Nowpada*<br>**Maharajah's Post Graduate College, Vizianagaram, Andhra Pradesh** | 442-446 | View Abstract<br>Download PDF |
| 96. | **Automatic vehicle speed control**<br>*Mohammed Shaheen, Hemanvitha Mylapalli, Padala Divyasri, Sriyancy Palakurthi, Dr. Esther Sunanda Bandaru*<br>**Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh** | 447-452 | View Abstract<br>Download PDF |
| 97. | **Offline examination system using Raspberry Pi**<br>*Nikhil Thakur, Sougandh Shah, Suraj Yeole, Shivraj Deshmukh, Sunita Nandgave*<br>**G. H. Raisoni College of Engineering and Management, Pune, Maharashtra** | 453-455 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 98. | **The use of a self-developed board game as a tool toenhance the mastery of vocabulary on action verbs**<br>*Faiqah Yasin, Harwati Hashim*<br>**National University of Malaysia (Universiti Kebangsaan Malaysia), Kuala Lumpur, Malaysia** | 456-459 | View Abstract<br>Download PDF |
| 99. | **Automated seed sowing robot**<br>*Komuravelli Nithish Kumar, Dr. R. Balaji, Seelam Raviteja, Kapurkar Sakshi, Katkuri Akhila*<br>**B. V. Raju Institute of Technology, Hyderabad, Telangana** | 460-464 | View Abstract<br>Download PDF |
| 100. | **Female foeticide perceptions and practices among women in Punjab**<br>*Yadwinder Kaur*<br>**Centre for Human Rights and Duties, Panjab University, Chandigarh** | 465-471 | View Abstract<br>Download PDF |
| 101. | **Multiple space closure using thermoplastic tray- Create a beautiful smile – One shot away**<br>*Dr. Lipsita Priyadarshini, Dr. Pradnya V. Bansode, Dr. Seema D. Pathak, Dr. Madhuri B. Wavdhane*<br>**Government Dental College and Hospital, Aurangabad, Maharashtra** | 472-476 | View Abstract<br>Download PDF |
| 102. | **Automated Pneumatic Fixture**<br>*Ninad Male, Prerit Shah, Tanveet Marucha, Parth Mullaji*<br>**Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra** | 477-479 | View Abstract<br>Download PDF |
| 103. | **A survey on satellite image classification approaches**<br>*Saurabh Srivastava*<br>**Integral University, Lucknow, Uttar Pradesh** | 480-483 | View Abstract<br>Download PDF |
| 104. | **Colorization of black and white images using generative adversarial networks**<br>*Ranjit Mahadik, Rashi Ryapak, Yash Panchal, Ankita Korde*<br>**Vidyalankar Institute of Technology, Mumbai, Maharashtra** | 484-487 | View Abstract<br>Download PDF |
| 105. | **Coronavirus: Family, how does it affect the body along with symptoms and treatment**<br>*Pullabhatla Sai Krishna*<br>**Dr. V. S. Krishna Government Degree and PG College, Visakhapatnam, Andhra Pradesh** | 488-489 | View Abstract<br>Download PDF |
| 106. | **Coronavirus Pandemic 2019-2020**<br>*Aradhana Kumari*<br>**Independent Researcher** | 490-493 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 107. | **Irrational Numbers in the Physical Universe, and its effects on length, time and mass: Introduction to PhysicalIrrational Numbers**<br>*Rajat Saxena*<br>**The Orbis School, Pune, Maharashtra** | 494-497 | View Abstract<br>Download PDF |
| 108. | **Design and fabrication of oil-revamp system using solar power**<br>*Jagruti Yogesh Devare, Bhavika Shantaram Akhade, Shweta Gangaram Damre, Nikhil V. S.*<br>**Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra** | 498-502 | View Abstract<br>Download PDF |
| 109. | **Prediction of Parkinson disease by methods using Machine learning approach**<br>*Chitra S., Manisha R., Gayathri K.*<br>**Rajalakshmi Engineering College, Chennai, Tamil Nadu** | 503-505 | View Abstract<br>Download PDF |
| 110. | **IoT based automatic irrigation system on greenhouse**<br>*Darniss, Asha S., Gowtham S., Vanathi A., Rahul Krishnan*<br>**Rajalakshmi Institute of Technology, Chennai, Tamil Nadu** | 506-509 | View Abstract<br>Download PDF |
| 111. | **Tracking of ambulance in rural areas in emergency situations using GPS and GSM**<br>*Kari Yamini Priyamvadha, Shaikh Shakeela, Pabbisetty Girish Sai*<br>**K L University, Guntur, Andhra Pradesh** | 510-512 | View Abstract<br>Download PDF |
| 112. | **Automatic toll tax collection system using RFID**<br>*Shivam Singh, Shashank Shukla, Sangam Kumar Mishra, Vishal Kumar Singh*<br>**IMS Engineering College, Ghaziabad, Uttar Pradesh** | 513-517 | View Abstract<br>Download PDF |
| 113. | **Production of bio fuel from used cooking oil**<br>*Nandhini M., Deva Dharshini S., Kanimozhi R.*<br>**Kalasalingam Academy of Research and Education, Madurai, Tamil Nadu** | 518-520 | View Abstract<br>Download PDF |
| 114. | **Multiple clustering solutions using FK-means Algorithm**<br>*Ahmed I. Taloba, Rasha M. Abd ElAziz*<br>**Al Jouf University, Sakakah, Saudi Arabia** | 521-526 | View Abstract<br>Download PDF |
| 115. | **Recommendation system of course selection**<br>*Saurabh Jayakumar Gandhi, Nikita Bhamare, Yugandhara Jadhav, Swati Patil*<br>**Vishwakarma Institute of Information Technology, Pune, Maharashtra** | 527-531 | View Abstract<br>Download PDF |
| 116. | **A survey on operating systems, LFS and BLFS**<br>*Kohinoor Chatterjee, Prafull Lad, Kartik Kapgate, Isha Bansod, Pravin Khandare*<br>**Vishwakarma Institute of Technology, Pune, Maharashtra** | 532-535 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 117. | **Precision farming using embedded systems and machine learning**<br>*Smit Master, Sachin Kundar, Rahul Gandhi*<br>**Vidyavardhini College of Engineering and Technology, Mumbai, Maharashtra** | 536-538 | View Abstract<br>Download PDF |
| 118. | **Home Automation with voice control**<br>*S. Saravanakumar, G. Vijay, C. Piramuthu Raja, T. S. Arun Samuel*<br>**National Engineering College, Kovilpatti, Tamil Nadu** | 539-541 | View Abstract<br>Download PDF |
| 119. | **Automatic Saline Re-filler for COVID-19 patients using IoT**<br>*Peddinti Jagannadha Deekshith, Kakarlamudi Lakshmi Maidhili*<br>**Independent Researcher** | 542-543 | View Abstract<br>Download PDF |
| 120. | **An attempt of best scheduling approach for a construction project**<br>*Sandeep Manohar Joshi, Dr.Navnath V Khadake*<br>**JSPM's Imperial College of Engineering and Research, Pune, Maharashtra** | 544-547 | View Abstract<br>Download PDF |
| 121. | **A three-layer privacy scheme for storing data using fog computing along with cloud computing**<br>*M. Sai Poojitha, P. Jyothsna Vani, K. Yaseswini, L. Tejaswini*<br>**Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh** | 548-551 | View Abstract<br>Download PDF |
| 122. | **A review on: Residual stresses in welding**<br>*Kiran Manohar Thorve, Sarvesh Khairnar, Prasad Kevane, Kartik Naik, Kalpesh Marathe*<br>**IETES Bharat College of Engineering, Thane, Maharashtra** | 552-554 | View Abstract<br>Download PDF |
| 123. | **Web based blood bank management system**<br>*Vedanti Vishnu Deshpande, Shubham Kumar, Supriya Chaple*<br>**Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra** | 555-558 | View Abstract<br>Download PDF |
| 124. | **Study of relation between spread of Covid-19 and Nitrogen dioxide**<br>*Bhalekar Sidhant Padmakar, Bhalekar Padmakar Jaywant*<br>**Savitribai Phule Pune University, Pune, Maharashtra, Regional Transport Office, Nanded, Maharashtra** | 559-563 | View Abstract<br>Download PDF |
| 125. | **Review on DAQ systems using FPGA**<br>*Ananya K. Nayaka, Dr. S. N. Prasad*<br>**REVA University, Bangalore, Karnataka** | 564-565 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 126. | **Analysis on the expectations of future multi-modal biometrics fusion**<br>*Ms. S. Selvarani*<br>**Fatima College, Madurai, Tamil Nadu** | 566-571 | View Abstract<br>Download PDF |
| 127. | **MANET Intrusion Detection System using cross-layer**<br>*G. Parameshwari*<br>**Anna University, Tiruchirappalli, Tamil Nadu** | 572-577 | View Abstract<br>Download PDF |
| 128. | **IoE – Smart Classroom**<br>*T. Prathyusha*<br>**School of Information Technology, Jawaharlal Nehru Technological University Hyderabad, Telangana** | 578-580 | View Abstract<br>Download PDF |
| 129. | **Relevant impact of the direct response marketing in the blue ocean marketing strategy governed atmosphere**<br>*Karan Chauhan, Aishwarya Sasikumar*<br>**Epsilon, Bengaluru, Karnataka** | 581-585 | View Abstract<br>Download PDF |
| 130. | **Invisible facial flushing in COVID-19 patient rapidly detected by smartphone application: Subclinical discovery with a novel method**<br>*Manote Arpornsuwan, Matinun Arpornsuwan*<br>**Independent Researcher** | 586-589 | View Abstract<br>Download PDF |
| 131. | **Effect of structured teaching program on knowledge regarding cardiopulmonary resuscitation among degree students**<br>*Shahana P. P., Seelia Peter A.*<br>**Al Shifa College of Nursing, Malappuram, Kerala** | 590-593 | View Abstract<br>Download PDF |
| 132. | **Energy audit: Case study of an Institute**<br>*Abhishek Patil, Devesh Koli, Tanmay Deodhar, Vishal Gaikwad, Asokan Selvaraj*<br>**Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra** | 594-597 | View Abstract<br>Download PDF |
| 133. | **Planning, scheduling and allocation of resource for cost optimization of multi-storeyed structure**<br>*Manish Darekar, Dr. Navnath V. Khadake*<br>**Imperial College of Engineering and Research, Pune, Maharashtra** | 598-601 | View Abstract<br>Download PDF |
| 134. | **Simulation and design of DC-DC boost converter**<br>*Uddala Chinarayudu, Allam Yadunanda Kumar*<br>**Brahmaiah College of Engineering, Nellore, Andhra Pradesh** | 602-608 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 135. | **Combating money laundering using artificial intelligence**<br>*Nikita M. Patil, Shraddha M. Dondekar, Chetan V. Rawale, Kiran V. Memane, Lahu Kamble*<br>**Vishwakarma Institute of Information Technology, Pune, Maharashtra** | 609-612 | View Abstract<br>Download PDF |
| 136. | **Development of Al-Alloy piston coating material for high specific power engine application**<br>*Vikrant Kate*<br>**Automotive Research Association of India, Pune, Maharashtra** | 613-622 | View Abstract<br>Download PDF |
| 137. | **Women's participation in Tourism industry: An overview**<br>*Lakshmi S., Dr. Padmapriya S.*<br>**Seshadripuram Academy of Business Studies, Bengaluru, Karnataka, St. Claret College, Bengaluru, Karnataka** | 623-625 | View Abstract<br>Download PDF |
| 138. | **To build or to partner – Dilemma case study**<br>*Rammohan Sundaram, Dr. A. Seetharaman, Dr. Maddulety*<br>**SP. Jain School of Global Management, Mumbai, Maharashtra** | 626-629 | View Abstract<br>Download PDF |
| 139. | **Aesthetic rehabilitation of fluorosis teeth with power bleaching: A case series**<br>*Dr. Laxman Daulat Phad, Dr. Pradnya V. Bansode*<br>**Government Dental College and Hospital Aurangabad, Maharashtra** | 630-635 | View Abstract<br>Download PDF |
| 140. | **Rule of Law in India- An analysis**<br>*Anushka Kaul*<br>**Symbiosis Law School, Pune, Maharashtra** | 636-638 | View Abstract<br>Download PDF |
| 141. | **A handheld and convenient occlusal scanner**<br>*Varun Venkat, Gayathri V., John Felix A., Vinoth Kumar G.*<br>**SRM Institute of Science and Technology, Chennai, Tamil Nadu** | 639-642 | View Abstract<br>Download PDF |
| 142. | **Assurance of pollution using image fusion of differently exposed image using discrete Wavelet Transform**<br>*Swastik Das*<br>**Vellore Institute of Technology, Vellore, Tamil Nadu** | 643-648 | View Abstract<br>Download PDF |
| 143. | **Effect of rice husk ash on partial replacement of cement in concrete**<br>*Ronak Devasia, Aniket Auti, Prasad Shirgaonkar, Ashutosh Surve*<br>**Gharda Institute of Technology, Ratnagiri, Maharashtra** | 649-651 | View Abstract<br>Download PDF |
| 144. | **Prediction of heart diseases using Machine Learning algorithms**<br>*N. Vineeth, V.N.V.L.S. Swathi, C. Vishal Sai, V. Vishal*<br>**CVR College of Engineering, Hyderabad, Telangana** | 652-655 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 145. | **ASIC implementation of smart home using VLSI design**<br>*Syed Muqtar Nawaz, Sureddy Sravya, Mohammed Imran, C. Ramesh Kumar Reddy*<br>**B V Raju Institute of Technology, Narsapur, Telangana** | 656-660 | View Abstract<br>Download PDF |
| 146. | **Alternatives to mitigate Corona**<br>*Manjeet Singh, Lavina Pratap Bhambhani*<br>**Parul University, Vadodara, Gujarat** | 661-663 | View Abstract<br>Download PDF |
| 147. | **Identification of potent COVID-19 Main Protease (Mpro) inhibitors from Curcumin analogues by Molecular Docking Analysis**<br>*Jaydip Bhaliya, Vraj Shah*<br>**ITM Vocational University, Vadodara, Gujarat** | 664-672 | View Abstract<br>Download PDF |
| 148. | **IoT based smart car parking system**<br>*Shravya K. Holla, Keerthi S., Vidhya Dhari L.*<br>**BNM Institute of Technology, Bengaluru, Karnataka, KS Institute of Technology, Bengaluru, Karnataka** | 673-677 | View Abstract<br>Download PDF |
| 149. | **Comparative studies of Eri Silkworm (Philosamia Cynthia Ricini) reared on artificial diet and natural castor leaves (Ricinus communis Linn)**<br>*Mousumi Mondal, Dhattatreya Hosagrahar, Srinivas Bandlamuri Venkataramana*<br>**Mallipathra Nutraceutical Private Limited, Bengaluru, Karnataka, Institute of Integrated Resource Management, Tezpur, Assam, Aspartika Biotech Private Limited, Bengaluru, Karnataka** | 678-685 | View Abstract<br>Download PDF |
| 150. | **Application of response surface methodology to optimize performance and emission characteristics of a diesel engine run on Karanja methyl ester blend with conventional diesel oil and picric acid as an additive**<br>*Sagar Tadkal, M C Math*<br>**Visvesvaraya Technological University, Mysore, Karnataka** | 686-693 | View Abstract<br>Download PDF |
| 151. | **Numerical investigation of a modified NACA-0018 Airfoil using Bumpy Profile at Low Reynolds Number**<br>*Ammar Ewis, Ahmed El-Baz*<br>**The British University in Egypt, Cairo, Egypt** | 694-707 | View Abstract<br>Download PDF |
| 152. | **GSM based detection system for home security**<br>*Shweta Nagle, Sapna Verma, Avantika Ghanekar, Mahesh Gangare, Ankit Soni, Ganesh Suryawanshi, Shubham Satpute, Nilesh Mishra*<br>**Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh** | 708-710 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 153. | **Talking Hand Gloves**<br>*P. Rajesh, Shivani Devda, Anukruthi Karre, Sai Preethi Nadendla, Singamsetty Sri Niharika*<br>**B.V. Raju Institute of Technology, Hyderabad, Telangana** | 711-714 | View Abstract<br>Download PDF |
| 154. | **Application of the enhanced single face photo as a novel screening tool for diagnosis of dengue infection and influenza**<br>*Manote Arpornsuwan, Matinun Arpornsuwan*<br>**Independent Researcher** | 715-724 | View Abstract<br>Download PDF |
| 155. | **Application of RSM to optimize performance and emission characteristics of a diesel engine fuelled with Karanja methyl ester and its blends with conventional diesel oil**<br>*Sagar Tadkal, M. C. Math*<br>**Visvesvaraya Technological University, Mysore, Karnataka** | 725-733 | View Abstract<br>Download PDF |
| 156. | **Analysis of G+4 Building with or without inclined member (Haunch) for supporting floating column**<br>*Yamini Bhoyar, Pranoti Raut, Shrikant Kongre, Veersamrat Kadu, Preetam Pandey, Rahul Korote, Manish Sapate*<br>**Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra** | 734-737 | View Abstract<br>Download PDF |
| 157. | **Translation Media**<br>*Ankita Jawadwar, Deepali Masare, Priyanka Belanekar*<br>**Vishwakarma Institute of Information Technology, Pune, Maharashtra** | 738-742 | View Abstract<br>Download PDF |
| 158. | **Smart Classroom**<br>*M. Venkata Akhil, Dr. R. Balaji, N. Pradeep, M. Rama Sai Kaushik*<br>**B. V. Raju Institute of Technology, Hyderabad, Telangana** | 743-748 | View Abstract<br>Download PDF |
| 159. | **Proper balance of direct response marketing and brand marketing for product and brand dominance in current market**<br>*Karan Chauhan*<br>**Epsilon India, Bangalore, Karnataka** | 749-755 | View Abstract<br>Download PDF |
| 160. | **A review of Coronavirus 2019 (COVID – 19)**<br>*Archana Salunkhe, Vishal Galave*<br>**Navsahyadri Group of Institutes, Pune, Maharashtra** | 756-758 | View Abstract<br>Download PDF |
| 161. | **Platform to improve the reachability of web based advertisement**<br>*V. Karunai Arasu, T. M. Lakshme Prabha, S. Dineshwaran, R. Muralidharan*<br>**Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu** | 759-761 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

| S.No | Title | Page Number | Links |
|---|---|---|---|
| 162. | **Weather prediction using Machine Learning**<br>*Harsh Agarwal, K. Sai Charan, S. Harsha Vardhan, J. Ashok Kumar, P. Someshwar Goud, Vamshi Krishna*<br>**B. V. Raju Institute of Technology, Hyderabad, Telangana** | 762-764 | View Abstract<br>Download PDF |
| 163. | **Design and fabrication of ceiling fan**<br>*Kiran Thorve, Sachin Gadhave, Prasad Gaikar, Amol Desai, Amey Sakre*<br>**IETES's Bharat College of Engineering, Thane, Maharashtra** | 765-767 | View Abstract<br>Download PDF |
| 164. | **Formulation, development and evaluation of Polysaccharide based Gastro-retentive Formulation for Delivery of Anti-Hypertensive Drug**<br>*Dr. Gyati Shilakari Asthana, Kavi Soundarya, Vemula Nagamani*<br>**Gokaraju Rangaraju College of Pharmacy, Hyderabad, Telangana, Bharat Institute of Technology, Hyderabad, Telangana** | 768-775 | View Abstract<br>Download PDF |
| 165. | **Three-dimensional additive manufacturing**<br>*Jayasangeetha J., Swarna Pragna, Marlapati G. Pravallika, M. Jayashree*<br>**Panimalar Institute of Technology, Chennai, Tamil Nadu** | 776-777 | View Abstract<br>Download PDF |


© 2020, IJARIIT.COM All Rights Reserved

# ABSTRACTS

## 1 Experimental Investigation of Datura Stramonium Biodiesel

Paper ID V6I2-1139 · Pages 1-5 · Bio Diesel

**Ashutosh Gupta**, Student, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, Tamil Nadu

Energy demand is increasing due to the increase in the population growth in India and in the world at large. It has become apparent and to go as per the plan for the production of biodiesel to make a substantial contribution to the future energy demands in respect to the domestic and industrial economies. The use of non-edible plant oils is very significant because of the great demand for edible oils as a food source. Moreover, the edible oils feedstocks costs are far expensive to be used as fuel. Therefore, the production of bio-diesels from non-edible oil is an effective way to overcome all the associated problems with edible oils. However, the potential of converting non-edible oils into bio-diesels must be well examined because the physical and chemical properties might differ from each other, hence they need furthermore research on this. To dispose of these issues, thinking about the elective assets. Biodiesels, in view of no awesome oils, animals' fat ratio and tiny fishes are guests. The examinations on the impact of biodiesels on its strength and weakness highlights of diesel energy power engines. More viscosity consistency is found as the pure use of datura stramonium plant seeds oil straight in an engine that is expelled by transforming it into biodiesel by the trans-esterification process. Fuel highlights like calorific values, flashpoints and cetane numbers of biodiesel and biodiesel-diesel blends were discovered its properties are similar to diesel fuel. Performance comes about to uncover that a large portion of the biodiesels, has given 4.84% higher brake thermal efficiency and high brake specific fuel consumption. The NOx is less in some load condition and HC, slightly higher than diesel fuel.

**Keywords:** Biodiesel, Trans-esterification, Energy

Read Full Paper · Download PDF · Back to index

---

## 2 Implementation of Artificial Intelligence in Motels

Paper ID V6I2-1152 · Pages 6-6 · Computer Science And Artificial Intelligence

**Keerthana P.**, Student, Jain University, Bengaluru, Karnataka

The most essential requirement of everyone's lives is food .In this research paper I am writing about an idea of implementation of Artificial techniques in the motels by which food is served replacing the labor. Also to reduce the wastage caused by the humans while preparing food in the hotels.

**Keywords:** Artificial Intelligence, IT Hotels, Convolution Neural Network

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 3 Brain Tumor Analysis using Convolutional Neural Network with MRI Images

Paper ID V6I2-1144 · Pages 7-10 · Deep Learning

**Deepalakshmi K.**, Student, Agni College of Technology, Thalambur, Tamil Nadu
**Priyavadhana S. R.**, Student, Agni College of Technology, Thalambur, Tamil Nadu
**Hannah Elezebath M. A.**, Student, Agni College of Technology, Thalambur, Tamil Nadu
**Jetlin C. P.**, Professor, Agni College of Technology, Thalambur, Tamil Nadu

Brain Tumor Analysis plays a vital role in detecting the tumored cells of the brain. A brain tumor can become very lethal at its advance stages. It can easily spread to other parts of the brain and affect the healthy cells of the brain as well. They reproduce uncontrollably. Hence, detection at early stages is very essential in treatment for improvement of the life expectancy of the patients. However, the detection of the tumor is a difficult and challenging task since the tumor possesses complex characteristics in appearance and boundaries. Magnetic resonance imaging (MRI) is being used extensively for the detection of brain tumors that requires segmenting huge volumes of 3D MRI images which is very challenging if done manually. It is the most commonly used medical image for brain tumor analysis. So, we are using MRI images for detecting the brain tumor. In this system, we are going to use Keras and Convolutional neural network(CNN) for the automatic segmentation and detection of a brain tumor using MRI images. It is considered as one of the efficient methods for detection of brain tumors. It has one or more convolutional layers and is used mainly for image classification and segmentation techniques. It helps in achieving high accuracy and is optimal as well.

**Keywords:** Brain Tumor, Magnetic Resonance Imaging (MRI), Convolutional Neural Network (CNN), Keras

Read Full Paper · Download PDF · Back to index

---

## 4 Cloud based web integrated development environment

Paper ID V6I2-1147 · Pages 11-13 · Cloud

**S. Saparna**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**Manoj R.**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**Dhivyananthan R.**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**Kanagasabapathy T.**, Professor, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu

The Cloud IDE is capable of providing a user with higher-end realistic features over the web interface that facilitates remote development. It allows user to initiate and develop applications nevertheless the bottleneck faced by environmental setup, relying upon personal devices, configuration, backup, etc. The principle of interaction between Frontend and Backend follows the real-time Message Queuing (MQ) system which enables user to carry out the work even in poor network. Moreover the system come out with advanced container technology that serves a comparatively large number of users at a time with the maximum speed of environment creation, request handling and program execution. On the other hand, the Extension development provision enables the creation and share a variety of tools to be used on the IDE including the language compilers.

**Keywords:** Message Queue (MQ), Containerization, Terminal Multiplexer

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 5 Bitcoin Prices (Statistical Analysis)

Paper ID V6I2-1159 · Pages 14-16 · Statistics

**Tanmay Gupta**, Student, SVKM's Narsee Monjee Institute of Management Studies, Mumbai, Maharashtra

In this paper with the help of mathematical tools, I will analyze how Bitcoin prices have fared over the span of 3 years from January 2017 to December 2019. The tools will help to forecast the future value of bitcoin but the values forecasted do not consider any external factors just makes an estimate according to the previous values. We will also use time series tools like moving averages to find a general trend of the prices of bitcoin.

**Keywords:** Bitcoin

Read Full Paper · Download PDF · Back to index

---

## 6 Fruit quality detection using machine vision techniques

Paper ID V6I2-1148 · Pages 17-22 · Image Processing

**S. Krishna Kumar**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**J. Kaviya**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**G. Dilip Prakash**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**K. Srinivasan**, Professor, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu

Machine vision techniques are now widely used to detect the quality of fruits. Image processing is usually the first step in detecting the quality of fruits. The process starts by capturing the image of the fruits using raspberry pi. Then, the image is transmitted to the processing stage where it can extract the features of the fruit like shape, size, and color. These processes are done using image processing. It helps to identify and compare the fruit shape, size, and color with the trained datasets. This is done during the training and testing stage. A diversity of methods for automatic separation of fruits is developed. Artificial Neural Network is the one that helps to segregate the fruits based on the quality such as good, moderate and rotten fruit. The existing system can only separate the fruits into good and rotten one with an accuracy of 87.4% but our proposed system is capable of separating the fruits into good, moderate and rotten one with an accuracy of 94.12%.

**Keywords:** Machine Vision, Image Processing, Convolutional Neural Network, Fruits Quality Detection

Read Full Paper · Download PDF · Back to index

---

## 7 An experimental investigation of natural soil stabilized with sewage sludge for flexible pavement

Paper ID V6I2-1160 · Pages 23-28 · Civil Engineering

**Sumi Shrivastava**, Research Scholar, LNCT Group of Colleges, Bhopal, Madhya Pradesh
**P. K. Singhai**, Professor, Lakshmi Narain College of Technology, Bhopal, India
**Veena Mandlekar**, Professor, Lakshmi Narain College of Technology, Bhopal, India

Soil is very important in civil engineering constructions. The poor engineering properties of the local soils may present many difficulties for construction and therefore need to improve their engineering properties.

© 2020, IJARIIT.COM All Rights Reserved

Stabilization techniques can be used to improve the properties of soil. Soil stabilization improves various engineering properties e.g. bearing capacity, compressibility, strength, and various other properties of soil. In this study the impact of Sewage Sludge to improve the strength of soil The soil was stabilized with Sewage Sludge in the stepped concentration of 5%, 10%, 15%, 20%, 25% and 30% by dry weight of the soil individually. All stabilized soil samples were also cured for 96 hours for the CBR test in a fully saturated condition. The test results indicate that the addition of Sewage Sludge enhances the percentage of grain size distribution but with addition of Sewage Sludge till 20% the LL, PL, PI and decreases, while these parameters further increase in this limit beyond i.e. 20% to 30% of Sewage Sludge, but in the case of the optimal percentage of Sewage Sludge at which maximum CBR is achieved is selected, Specific gravity value of Natural Soil is 2.57, but a percentage of Sewage Sludge is increased, specific gravity value decreases gradually from 2.57 to 2.44 with increase in percentage of Sewage Sludge from 0 to 30% and value of raw soil is achieved as 1.85 gm/cc at OMC of 13.65%. It got increased to 1.93 gm/cc at OMC of 12.30 % when Sewage Sludge is increased from 0 to 20% is effective beyond also there is decreasing in MDD from 1.93 gm/cc at OMC of 12.30% to 1.89 gm/cc at OMC of 13.20% when Sewage Sludge is increased from 20 to 30%. The CBR value increases with the addition of Sewage Sludge till 20%, while it decreases beyond the limit 20% to 30% with the addition of Sewage Sludge. For both soaked and unsoaked conditions.

**Keywords:** Sewage sludge, OMC, MDD, Un-soaked CBR, Soaked CBR, Natural soil

Read Full Paper · Download PDF · Back to index

---

## 8 Is the level of happiness related to the number of hours of sleep amongst students?

Paper ID V6I2-1174 · Pages 29-31 · Statistics

**Smit Modi**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

We have always been told that we should have six to eight hours of sleep is must for all human beings. Also, all the doctors say that 6-8 hours of sleep further leads to a high level of refreshment but that is often misinterpreted with happiness. Hence I decided to take a survey of people to find out the relation between happiness and took a survey of 573 students from NMIMS ASMSOC, MPSTME, and Navrachana Vidyani Vidyalaya.

**Keywords:** Sleep

Read Full Paper · Download PDF · Back to index

---

## 9 Historical Sensex closing prices

Paper ID V6I2-1176 · Pages 32-34 · Finance

**Akshat Mittal**, Research Scholar, Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

© 2020, IJARIIT.COM All Rights Reserved

In this paper we studied the closing Sensex prices and find the trends it followed along with any correlationwith time, as well as a moving 3 yearly average using a daily data set converted to the yearly average. We also studied the trends Sensex has followed from 1st July 1997 till 3rd March 2020. Furthermore, a regression analysis of the provided data was undertaken

**Keywords:** Financial market, Stock market

Read Full Paper · Download PDF · Back to index

---

## 10 Optimal Load Balancing and cloud resource management by space shared scheduling technique

Paper ID V6I2-1151 · Pages 35-37 · Cloud Computing

**Amreen Kubra**, Student, Er. Perumal Manimekalai College of Engineering, Hosur, Tamil Nadu
**P. Anlet Pamila Suhi**, Assistant professor, Er. Perumal Manimekalai College of Engineering, Hosur, Tamil Nadu

Cloud computing is the availability and management of a large number of resources without the involvement of users. The Characteristics of Cloud Environment are its elasticity, availability, and scalability of the resources which is done by sharing the cloud resources. Resource monitoring and prediction are the keys to achieve resource utilization with high-performance management in cloud computing. Resource scheduling is one of the major issues of cloud computing, the scheduling policy and algorithm affect the performance of the cloud system directly. Moreover, Load balancing is also one of the major aspects which are the process of distributing the load on various nodes providing the best resource utilization when nodes are overloaded. The major focus of this work is to develop a space shared resource sharing technique that allows one job to utilize the available resource at a time as per the requirement for job completion. The Proposed System also provides optimal resource sharing and Load balancing by utilizing the Optimized Throttled Load Balancing Algorithm (OTLBA). In order to optimize resources scheduling of cloud computing and to improve the utilization ratio of the resource as well as guarantee application quality of service, the dynamic resources scheduling based on the Optimal Load balancing algorithm has been designed and implemented.

**Keywords:** Resource scheduling, Optimal Allocation policy, Space shared scheduling, Load Balancing, OTLBA

Read Full Paper · Download PDF · Back to index

---

## 11 Challenges of Governance in India

Paper ID V6I2-1162 · Pages 38-40 · Phd Scholar

**Shakeel Ahmed**, Research Scholar, Maulana Azad National Urdu University, Hyderabad, Telangana

Governance refers to the process of decision making by administrative authorities, or Governance includes law-making, Institution building, regulation, and administration. All of these are actually intertwined in designing good policy processes and the implementation of these policies. If we take the example of the economic sector of the country it seems here that derisory bankruptcy laws, government ownership of banks and non-bank finical companies, and poor regulations all contribute to the bad debt problem in the Indian financial sector. If we see from another perspective there is a number of catastrophes being faced by governance in India. The daily Incidences, Crime, Violation of law, Poor Policy Process, Economic Crises, Environmental concerns, health

© 2020, IJARIIT.COM All Rights Reserved

education, poor delivery of public services, issues related to women, and other emerging social issues are the key challenges that are being faced by governance in the country. This paper highlights the challenges of Governance in the country in the elegance of basic issues which are now becoming a challenge for the process of Governance in the country. The concept of governance describes by different organizations and authors from time to time. It refers to the governing process of a country in simple terms.

**Keywords:** Governance, Intertwined, Bankruptcy, Catastrophes, Emerging, Delivery elegant

Read Full Paper · Download PDF · Back to index

---

## 12 Artificial Neural Network paradigm for cost-effective networks

Paper ID V6I2-1165 · Pages 41-47 · Computer Science And Engineering

**Vinutha**, Student, Presidency University, Bengaluru, Karnataka

This paper is going to deal with the introduction for the artificial neural network and the neural network, then the characteristics of Artificial Neural Network, Applications of neural networks, Benefits and the types of learning such as supervised, unsupervised, and Reinforcement learning in supervised it is classified into 2 types as classification, regression, in unsupervised there are mainly two types such as clustering and association. An example of pattern recognition, Bayesian Network, Building the Bayesian network, types of ANN that are the feedback and feed-forward architectures, three important components of ANN and finally the main challenges in ANN and the solutions for the same.

**Keywords:** Artificial Neural Networks, Bayesian Network, Classification, Regression, Feedback, Feedforwards Architectures

Read Full Paper · Download PDF · Back to index

---

## 13 Yes Bank Performance

Paper ID V6I2-1184 · Pages 48-50 · Finance And Stock Market

**Devansh S. Babaria**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

Using mathematical tools to judge the performance of Yes Bank shares and forecasting the future prices based on prices since December, 2019.

**Keywords:** Analysis, Regression, data, forecasting and trend line

Read Full Paper · Download PDF · Back to index

---

## 14 Foreign Exchange Rate

Paper ID V6I2-1202 · Pages 51-53 · Statistical Analysis

**Divyanshi Agrawal**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

In this paper with the help of mathematical tools, I will analyze how the Foreign Exchange Rate of India and the USA have fared over the span of 3 years from March 2017 to February 2020. The tools will help to forecast the future value of the foreign exchange rate but the values forecasted do not consider any external factors and are based on the previous values. We will also use time series tools like moving averages to find the general

© 2020, IJARIIT.COM All Rights Reserved

trend of the rate.

**Keywords:** Foreign Exchange Rate, Trendline, Moving Average

Read Full Paper · Download PDF · Back to index

---

## 15 India monthly temperatures – A statistical analysis

Paper ID V6I2-1180 · Pages 54-56 · Statistics- Temperature Fluctuations

**Aakash Sarkar**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

In this paper, with the help of various mathematical tools and functions, I will analyse how the temperatures in India have fluctuated over the course of 5 years from January 2015 to December 2019. The tools or functions will help to forecast the future range of temperatures but the values forecasted do not consider any external factors and are instead estimated on the basis of the previous values. Time series tools will also be used to establish or to find a general trend of the temperatures in India.

**Keywords:** India Temperature

Read Full Paper · Download PDF · Back to index

---

## 16 Evaluation of Gross Domestic Product in India

Paper ID V6I2-1185 · Pages 57-59 · Macro-economics

**Rohan**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

In this research paper with the assistance of some mathematical tools and ways, we'll analyse how Gross Domestic Product (GDP) in the Republic of India has modified over the years from 1960 to 2020.

**Keywords:** Gross Domestic Product, Forecast, Trend Line, Regression, Moving Average, Analysis

Read Full Paper · Download PDF · Back to index

---

## 17 Do the share prices of a company affects the sensex prices?

Paper ID V6I2-1186 · Pages 60-61 · Statistics

**Suyash Saxena**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

It has always seen that the Sensex prices change according to the prices of the shares of the companies of that particular country. Hence, I took the secondary data from the Bombay Stock Exchange i.e, the prices of Sensex on different dates and the share prices of HUL to see whether there is an actual relation between the two values or not.

**Keywords:** HUL , Sensex

Read Full Paper · Download PDF · Back to index

---

**© 2020, IJARIIT.COM All Rights Reserved**

## 18 Match and runs scored

Paper ID V6I2-1187 · Pages 62-69 · Sports

**Yash Asrani**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

In this paper, with the use of mathematic techniques, I will understand and analyze the relationship between a number of matches played by a cricket player and the number of runs scored by him. Using correlation technique we will understand the relationship between a number of matches and runs scored for 801 cricketers.

**Keywords:** Cricket, Correlation, Regression, Runs

Read Full Paper · Download PDF · Back to index

---

## 19 Statistical analysis of deaths from COVID-19 in Hubei, China

Paper ID V6I2-1195 · Pages 70-72 · Mathematical

**Parth Jain**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The aim was to find the trends in deaths caused by Coronavirus Disease 2019 (COVID-19) in Hubei, China. Statistical analysis tools of data analysis were used to find the 5-day moving average, trendline, and regression analysis. Data were extrapolated and predicted for the next 3 days after 18th February 2020.

**Keywords:** Corona Virus (Covid-19)

Read Full Paper · Download PDF · Back to index

---

## 20 Aditya Birla Capital Limited share analysis

Paper ID V6I2-1196 · Pages 73-77 · Statistics

**Umang Aggarwal**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The following research is done on Aditya Birla Capital Limited's shares. We have used Open Price, Last Price, Total Traded Quantity and Turnover to find the interpretation and predicting future value so that the investors could be benefited by predicting the future value and they could invest in the particular project.

**Keywords:** Aditya Birla, Future Value, Share

Read Full Paper · Download PDF · Back to index

---

## 21 A study on problems faced by the consumers' towards green FMCG products in Coimbatore City

Paper ID V6I2-1190 · Pages 78-81 · Marketing

**S. Kalaiselvi**, Research Scholar, Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu
**Dr. D. Parasakthi**, HOD, Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu

A clean environment is essential for healthy living of all creatures, it will become poisoned with various environmental issues like global warming, ozone depletion, pollution, loss of biodiversity and deforestation etc, for this concern all over the world various government, business organizations and consumers are started

© 2020, IJARIIT.COM All Rights Reserved

avoiding the products that are harmful for the environment. In order to protect our environment, the FMCG manufactures are produced their products in an ecofriendly way. The major segments of green FMCG distinctly classified into four different segments like Food and Beverage industry, Home Care, Personal care and Electronics, it is an important contributor to India's Gross Domestic Product. The study is descriptive in nature both primary and secondary data to be considered for this analysis.710 samples are randomly selected in the area of Coimbatore city and analyzed for the study. Through this study Problems towards green FMCG products have been analyzed and provide the suitable suggestions to improve the services.

**Keywords:** Eco Friendly, Major Segments of Green FMCG, Gross Domestic Product, Problems.

Read Full Paper · Download PDF · Back to index

---

## 22 IoT based vehicle emission monitoring system

Paper ID V6I2-1192 · Pages 82-84 · Computer Science Engineering

**Harish Bhashkar Domale**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Pratik Ulhas Jogdande**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Dhondiba Ram Fadatare**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Prachi Ganesh Lohar**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Shubham Ratnakar Bodake**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**M. V. Mane**, Professor, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra

In the world, there are many problems regarding to the pollution. One of the major problems is air pollution. The air pollution has been increase because of more uses of the vehicle. Through the vehicle CO (Carbon Monoxide), HC (Hydrocarbon) are emitted which leads to global warming and it also affects animals and human health. If the vehicle is not maintain properly then the amount of smoke will get increase, which leads to increase in pollution. For this problem the solution is, we have developed a system i.e. Vehicle Emission Monitoring System that monitors the pollution exhausted from the vehicle. This system is based on IoT (Internet of Things). This system will be placed in the vehicle and starts monitoring when the vehicle's engine get starts. The threshold value will be set according to the threshold value of PUC (Pollution Under Control) Center. When the exhaust value crosses about the threshold value alert message is send to the owner of the vehicle. The system consists of Arduino Mega 2560, CO sensors, HC sensors, air quality, GSM.

**Keywords:** Arduino Mega 2560, GSM, LCD, Sensors, Buzzer.

Read Full Paper · Download PDF · Back to index

---

## 23 Research paper on import of medicines originated in India and outside Indian borders

Paper ID V6I2-1198 · Pages 85-88 · Statistics

**Smeet Kiri**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

India is the largest provider of generic drugs globally. Indian pharmaceutical sector industry supplies over 50 percent of global demand for various vaccines, 40 percent of generic demand in the US and 25 percent of all medicine in the UK. India enjoys an important position in the global pharmaceuticals sector. The country also

© 2020, IJARIIT.COM All Rights Reserved

has a large pool of scientists and engineers who have the potential to steer the industry ahead to an even higher level. Presently over 80 percent of the antiretroviral drugs used globally to combat AIDS (Acquired Immune Deficiency Syndrome) are supplied by Indian pharmaceutical firms.

**Keywords:** Medicine

Read Full Paper · Download PDF · Back to index

---

## 24 Analysis of the impact that hours studied in a day has on percentage scored in 12th

Paper ID V6I2-1199 · Pages 94-103 · Mathematics

**Gaurav Makhija**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

We investigate whether there is a direct correlation between the number of hours studied and marks scored in Class 12. This was done by using 2 important mathematical excel functions – regression and co-relation. Data of 520 students were collected for analysis.

**Keywords:** Education, Study hours, 12th Standard

Read Full Paper · Download PDF · Back to index

---

## 25 Study of movement of gold price rates in terms of USD and INR

Paper ID V6I2-1200 · Pages 104-107 · Mathematics

**Riddhi P. Bhatt**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

For many centuries now, gold is preferred as one of the major investment options, especially by Indian investors. The prices of the gold are increasing and the price of the gold is affected by multiple various factors like exchange rate of US dollar with INR, Crude oil prices, repo rate and inflation rate. This paper is mainly focused on the factors like exchange rate of US dollar with INR. Each of the factors is studied with the gold prices. The relationship between the factors and the gold prices is emphasized in this paper. There exists an inverse relationship between the USD and gold prices. In other words, when the value of the dollar increases relative to other currencies around the world, the prices of gold tends to fall in terms of the dollar. This is because gold becomes more expensive in other currencies. As the price of a given commodity like gold moves higher, the demand for that commodity recedes.

**Keywords:** Gold Price Rates, USD, INR

Read Full Paper · Download PDF · Back to index

---

## 26 Consumer Price Index and Index of Industrial Production and its impact on the Dow Jones

Paper ID V6I2-1201 · Pages 108-111 · Statistics

**Muskaan Nagori**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

A few key economic indicators that demonstrate the performance of any economy in general and US economy,

© 2020, IJARIIT.COM All Rights Reserved

in particular, are Consumer Price Index, Index of Industrial Production and Dow Jones Industrial Average (Specific to US economy). To establish the relationship between the 3 a detailed analysis of the 3 indicators has been made based on secondary data published by Fred Economic Data for the last 60 years. It is a very interesting analysis and clearly establishes the impact of CPI and IIP on Dow Jones.

**Keywords:** CPI, IIP, Dow Jones, Equity Market, USA, Industrial Growth, Inflation

Read Full Paper · Download PDF · Back to index

---

## 27 Research Paper about SPEcint 2006

Paper ID V6I2-1204 · Pages 112-116 · Computers

**Navya Maheshwari**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

This research paper is about CINT2006 (aka SPECint2006) and shows the relation between cores (A processor core (or simply “core”) is an individual processor within a CPU), number of chips (Computer chip, also called chip, integrated circuit or small wafer of semiconductor material embedded with integrated circuitry) and a processor’s performance. All these factors are taken into consideration and the performance of the processor or the result is measured. The higher the result, the better is the performance of the processor or, the less is the time taken to process the test programme instructions. Type of data: Secondary data Independent Variables: # Cores, # Chips, # Cores Per Chip, Processor MHz Dependent Variables: Result

**Keywords:** Cores, Number of Chips, Processor MHz, Result

Read Full Paper · Download PDF · Back to index

---

## 28 Without human automatic car tariff collection system

Paper ID V6I2-1166 · Pages 117-118 · Electronics And Communication Engineering

**Atanu Wadadar**, Lab Teacher, Narula Institute of Technology, Kolkata, West Bengal
**Sudip Paul**, Lab Teacher, Narula Institute of Technology, Kolkata, West Bengal

RFID based Smart Toll Collection System as a solution to solve the traffic problems and also to maintain transparency of the toll collection system. This system is to make a digital toll collection system that will be less time consuming and automated. This system focuses on an electronic toll collection (ETC) system using radio frequency identification (RFID) technology. The proposed RFID system uses tags that are mounted on the windshields of vehicles, through which information embedded on the tags are read by RFID readers; this system eliminates the need for vehicle owners and toll authorities to manually perform ticket payments and toll fee collections, respectively. Data information is also easily exchanged between the vehicle owners and toll authorities, thereby enabling a more efficient toll collection by reducing traffic and eliminating possible human errors.

**Keywords:** RFID, Hardware component, Fuel saving, Electronic toll collection, Cost-saving, Internet of everything

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 29 Research Paper about Counter Strike Global Offensive

Paper ID V6I2-1205 · Pages 119-122 · Gaming

**Aayush Rathi**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

This research paper is about a PC competitive matchmaking game ‘Counter Strike Global Offensive’ and it shows the relation between Kills, Deaths and the network Ping. Taking into consideration all these factors, the research paper shows the impact of these factors quantified into the final score of the player, i.e, MVP or Most Valued Player. Type of data : Secondary data Independent variables : Kills, Deaths & Ping Dependent variables : MVP

**Keywords:** Kills, Deaths, Ping, MVP

Read Full Paper · Download PDF · Back to index

---

## 30 Age vs. Travel

Paper ID V6I2-1206 · Pages 123-132 · Management

**Dishan Gosar**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

We often believe that as a person grows older he/she starts losing interest in traveling out of town and going on adventurous trips due to health issues or any such reason. Hence I decided to conduct a survey to understand the relationship between the age of a person and the frequency of traveling out of town in a year with the input of 500 people.

**Keywords:** Age, Frequency, Travel, Histogram, Correlation, Pie chart

Read Full Paper · Download PDF · Back to index

---

## 31 Analysis of relation between number of members in a family and number of vehicles per family

Paper ID V6I2-1207 · Pages 133-143 · Quantitative Techniques

**Shubh Bheda**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

We investigate whether there is a direct correlation between the number of members living in one family and the number of vehicles per family (both 2 and 4 wheelers included). The analysis involves correlation regression and descriptive statistics of both the variables. The research paper also involves a graph which depicts an average number of vehicles given the number of members a family has. The analysis has been done by taking a sample of 545 families that will help us determine our objectives.

**Keywords:** Vehicles, Family members, Analysis

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 32 Investigation on power quality assessment in data centre

Paper ID V6I2-1208 · Pages 144-148 · Electrical Engineering

**S. Arivazhagan**, Independent Researcher
**P. Sivaraman**, Independent Researcher

The Data Centre (DC) is used to store the database for customer's related services like banking, IT sectors and share marketing etc. In order to accomplish the scheduled tasks and manipulate the bushiness hours effectively Data Centre (DC) needs uninterrupted power supply (UPS). The major types of equipment of DC are UPS, chiller or PAC, Precision Air Handling Unit (PAHU) or Air Handling Unit (AHU) etc. While these types of equipment come into operation they are adversely affected by power quality problem particularly from voltage sag. If the voltage magnitude during the voltage sag exceeds the low voltage tolerance limits, the sensing device in the UPS system senses the input voltage with respect to tolerance limit and it turns ON the battery mode. Under battery mode condition the Data Centre (DC) gets rated voltage continuously and work is carried out without power interruption. When the incoming supply voltage is resumed back to its rated value UPS systems turns off the battery mode and turns on the normal supply mode. This is how the Data Centre (DC) is effectively compensated by UPS. But in the case of chiller PQ problem caused by voltage sag is not compensated. If the voltage sag events continue, the under-voltage relay trips the power input and data centre equipment get to turn off. Hence the room temperatures of DC will abruptly increase and causing data center failure. In order to figure out the problems in data centre caused by power quality i.e. voltage sag, the PQ assessment was carried out at DIGSILENT power factory in Bengaluru, India connected with 11 kV Ring Main Unit (RMU) for four days between 22/9/2017 to 25/9/2017. About 36 voltage sag events and 4 interruptions were captured and the highest temperature inside the DC hall was also recorded. This paper discusses the techno-economical location for installing the DSTATCOM to enhance the power quality during voltage sag event for the data centre (DC). Dranetz Power Guide 4400 Power Quality Analyzer (PQA) has been used for PQ assessment and carried out at DIGSILENT power factory

**Keywords:** Voltage sag, FACTS, DSTATCOM, Data center, chiller, UPS

Read Full Paper · Download PDF · Back to index

---

## 33 Analysis of orders by an average retail store

Paper ID V6I2-1210 · Pages 149-152 · Statistics

**Malak Chheda**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

A normal retail store usually has most of the necessary FMCG products. Obviously retail stores do not produce these goods, they are just a medium through which the companies sell their goods. But, retailers do not always purchase the goods directly from the company to produce these products; they buy it from the wholesalers on a daily, weekly or monthly basis. Here, I have collected data about the goods that stores order daily because of their demand or perishability.

**Keywords:** Store data, Regression, Histogram, Analysis

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 34 Analysis of relation between units sold and total profit

Paper ID V6I2-1211 · Pages 153-155 · Statistics

**Yash Sarna**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

We investigate whether there is a direct correlation between the quantity sold and the profit created from it. There are two variables – quantity sold and Total profit, our analysis will be focused on both of them. The analysis involves correlation and regression of both the variables and predicting the future value. The research paper also involves graphs that depict sales in different quantities. There are 524 entries in the research paper which will help us determine our objectives.

**Keywords:** Correlation, Regression, Straight line regression graph

Read Full Paper · Download PDF · Back to index

---

## 35 Average stock price comparison of HUL and ITC limited

Paper ID V6I2-1213 · Pages 156-158 · Mathematics And Statistics

**Mohammed Jabalpurwala**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The following research paper compares the stock prices of 2 major players in the FMCG industry- Hindustan Unilever and ITC from 8 March 2018 - 6 March 2020

**Keywords:** Stock, Market, Stock Market, Hindustan Unilever, ITC Limited, Average Stock Price, Bulls, Bears, Research, Paper, Research Paper

Read Full Paper · Download PDF · Back to index

---

## 36 Statistical analysis of birth rate in India

Paper ID V6I2-1218 · Pages 159-161 · Mathematics And Statistics

**Meherzad Bhadha**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The aim of the analysis is to find the trends in birth rate (per 1000) in India. The statistical tools utilized are regression analysis, trend line and 5 yearly moving average. Data from the past 29 years was used to study the trends and predict the next 3 years. Using the data conclusions were drawn on the effectiveness of government policies related to family planning.

**Keywords:** Birth rate, Trendline, Moving average

Read Full Paper · Download PDF · Back to index

---

## 37 Impact of a drug on cancer

Paper ID V6I2-1219 · Pages 162-166 · Statistics

**Reet Bhansali**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

We investigate whether there is a direct correlation between the impact of a drug on cancer occurrence by taking into consideration various samples of the drug. We examine the process by taking into consideration two independent factors related to a drug which are the amount of dosage(in grams) and No. of Times(Dosage Per

© 2020, IJARIIT.COM All Rights Reserved

Week). We perform the regression, distribution and correlation analysis on all the 3 variables viz. impact, amount of dosage and no. of times(dosage in a week). We have done the analysis with the help of 530 samples of drugs that helped us determine our objectives.

**Keywords:** Impact of drug on cancer, Dosage and no. of times of dosage

Read Full Paper · Download PDF · Back to index

---

## 38 How does total population of India get affected by change in birth rate?

Paper ID V6I2-1221 · Pages 167-168 · Bachelors In Business Administration

**Isha Dhakad**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

India is the second-largest most populated country in the world. It's said that if the population grows at the same rate India will soon become the most populated country of world-beating China. I thought to interpret that what were the changes in India's birth rate % and thus the total population from 2008 to 2016.

**Keywords:** Total population, States and union territories of India, Birth rate

Read Full Paper · Download PDF · Back to index

---

## 39 Mobile phone buying behavior of people

Paper ID V6I2-1223 · Pages 169-178 · Statistics

**Muskaan Mehta**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The analysis is done to study different behavior of people in the Indian Market while buying mobile phones and what features, price qualities, etc they prefer to have on a mobile phone.

**Keywords:** Mobile phone, Primary data, Quantitative research, Research paper, Consumer behavior, Buying behavior, Data analysis, Correlation, Regression, Descriptive statistics

Read Full Paper · Download PDF · Back to index

---

## 40 Bollywood music analysis

Paper ID V6I2-1224 · Pages 179-181 · Statistics

**Ruhi Khanna**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The following analysis gives an overview of how much time people like to spend listening to Bollywood music. This analysis also helps in understanding the different moods of people while listening to music.

**Keywords:** Bollywood music, Attitude of people towards music, Research, Research paper

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 41 Health expenditure and GDP

Paper ID V6I2-1225 · Pages 182-186 · Statistical Analysis

**Sukanya Aggarwal**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The analysis has been done to understand the trend in health expenditure and GDP using 3 yearly moving average and least square method. It also helps in understanding the future trends in health expenditure.

**Keywords:** Health, Expenditure

Read Full Paper · Download PDF · Back to index

---

## 42 Sales by AVAISS

Paper ID V6I2-1228 · Pages 187-189 · Quantitative Techniques

**Yash Lodha**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

In this paper with the help of mathematical tools, I will analyze how the sales of AVAISS have fared in different years. The tools will help to analyze the companies performance over the years and will provide useful insight into the company. We will also use time series tools like moving averages to find the general trend of sales of AVAISS

**Keywords:** AVAISS, Sales

Read Full Paper · Download PDF · Back to index

---

## 43 Analysis of the 10-yearly US Government Bond yield

Paper ID V6I2-1229 · Pages 190-192 · Commerce

**Pranjal Mukhija**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The paper analyses how the 10 yearly US Government Bond Yield Rates have fluctuated over the years but have maintained a general predictable downwards trend.

**Keywords:** Government Bond, 10-Yearly Yield, Long Term Interest Rate

Read Full Paper · Download PDF · Back to index

---

## 44 Analysis on shares: Effects of high price and low price on shares traded

Paper ID V6I2-1230 · Pages 193-208 · Shares Market

**Yugam Goenka**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

There are 3 variables under observation in this research paper which are the High Price, Low Price of a share and the Number of Shares Traded each day. The high price shows the highest value the particular share/stock has reached during a day and the low price shows the lowest point of the same. The particular shares data is of the company: Reliance, BSE: 500325, NSE: RELIANCE, ISIN: INE002A01018. The period under study is of 725 days starting from 01 April 2017 until 06 March 2020. This research paper will determine the relations and effect of the three variables on each other through various statistical tools such as Bar Diagrams (Histograms), Correlations, and Regression. All the statistical analysis has been conducted on MS Excel using Data Analysis

© 2020, IJARIIT.COM All Rights Reserved

Tools.

**Keywords:** Shares, Stock Market, Statistical Analysis, Correlation, Regression, Charts, High Price, Low Price, Shares Traded

Read Full Paper · Download PDF · Back to index

---

## 45 Research paper on Ebola Virus outbreak

Paper ID V6I2-1232 · Pages 209-211 · Quantatative Techniques

**Mustafa Thanawala**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The aim is to find the trends in death caused by Ebola virus 2013-16. Statistical analysis tools of data analysis were used to find correlation, trendline, moving average, regression analysis and future value. Data was extrapolated and predicted.

**Keywords:** Ebola Virus, Correlation Regression analysis, Moving averages, Trend line

Read Full Paper · Download PDF · Back to index

---

## 46 Quantitative Techniques

Paper ID V6I2-1234 · Pages 212-226 · Mathematics

**Darsh Torani**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The project shows a statistical analysis of the stock prices of Tesla. It is dated from 17-9-2014 to 17-3-2017. It calculates the value of stock prices on a daily basis in the specified period. It calculates the 5 daily moving average, the regression equations, trend lines, and displays the same graphically.

**Keywords:** Stock Prices

Read Full Paper · Download PDF · Back to index

---

## 47 Analysis of relation between quantity and sales

Paper ID V6I2-1212 · Pages 227-228 · Statistics

**Labdhi Jain**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra, India

We investigate whether there is a direct correlation between the quantity sold and the amount received from it. There are two variables – quantity sold and sales, our analysis will be focused on both of them. The analysis involves correlation and regression of both the variables and predicting the future value. The research paper also involves graphs that depict sales in different quantities. There are 502 entries in the research paper which will help us determine our objectives.

**Keywords:** Correlation, Regression

Read Full Paper · Download PDF · Back to index

---

**© 2020, IJARIIT.COM All Rights Reserved**

## 48 SSO Protocol Performance Testing

Paper ID V6I2-1137 · Pages 229-233 · Information Technology

**Rackymuthu**, Research Scholar, Government Arts College, Coimbatore, Tamil Nadu
**Buvaneswari**, Assistant professor, Government Arts College, Coimbatore, Tamil Nadu

To build the SSO server, there is a need to identify better protocol among LDAP, SAML, and OIDC as these are protocols widely used protocol. So need to find which the best protocol is based on testing. The testing is applied in various ways. To test the protocols based on performance is one of the important aspects. Here to test the LDAP, SAML and OIDC protocol based their performance. And finally, conclude the best performing protocol.

**Keywords:** LDAP, OIDC, SAML, SSO

Read Full Paper · Download PDF · Back to index

---

## 49 Instantaneous Battlefield Gun (IBG)

Paper ID V6I2-1191 · Pages 234-238 · Computer Science & Engineering

**Smitha Rani Sahu**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Srivatsa Lasya Priya O**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Sunkari Sanghavi**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Surisetti Maheshwari**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Dr. Esther Sunanda Bandaru**, Assistant Professor, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh

Internet of Things (IoT) is the system of inter related computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UID’s) and the ability to transfer data over a network without requiring human - human or human - computer interaction . IoT has made revolution in the field of military applications which bases for the purposes of reconnaissance, surveillance, together termed as Internet of Military Things (IoMT). Considering IoMT and applying the ideas of military domain, a potential application called Instantaneous Battlefield gun (IBG) is proposed. IBG is an instance of an automated security system which involves in detecting the obstacle using ultrasonic sensor and then aiming at it using laser beam of light. Security and accurate detection is the major concern of IBG.

**Keywords:** Internet of Things,Internet of Military Things, Ultrasonic Sensor,WiFi Module, Arduino Mega 2560,Servo motor, Object Detection, Laser Diode.

Read Full Paper · Download PDF · Back to index

---

## 50 Image retrieval using chromatic histogram based on color extraction

Paper ID V6I2-1214 · Pages 239-241 · Image Processing

**D. Ananth**, Assistant Professor, Theni Kammavar Sangam College of Technology, Theni, Tamil Nadu
**K. Ayyapparaja**, Assistant Professor, Theni Kammavar Sangam College of Technology, Theni, Tamil Nadu

A new indexing technique for image databases integrating color and similarity information for chromaticity

© 2020, IJARIIT.COM All Rights Reserved

based image retrieval is proposed. This methodology, called chromatic histogram, extracts few values of information about the location of pixels having the same color and their arrangement position within the image, can be more satisfactory than other standard techniques like text, feature, and shape when the user would like to retrieve from the image databases that actually resemble the query image selected in their color distribution properties. Experimental trials on a database of about 1000 images are implemented on the basis of human perceptual judgments.

**Keywords:** Color Based Image, Chromatic Histogram, Image Retrieval

Read Full Paper · Download PDF · Back to index

---

## 51 Statistical analysis of exchange rate of New Zealand Dollar

Paper ID V6I2-1236 · Pages 242-245 · Statistical Analysis

**Sagar Abrol**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The Research Paper contains the data of the Exchange Rate of New Zealand Dollar from the year 2000 to 2019. The analysis has been done to understand the trend in the Exchange Rate of New Zealand Dollar using 3 yearly moving average and least square method. It also helps in understanding the future trends in the Exchange Rate of New Zealand Dollar.

**Keywords:** Exchange Rate, New Zealand Dollar, Regression, Moving Averages, Future Trend

Read Full Paper · Download PDF · Back to index

---

## 52 Estimation of sensory nutritive qualities of flaxseed cookies and it’s preparation

Paper ID V6I2-1183 · Pages 246-248 · Food And Nurition

**Shreya Wadbudhe**, Student, Sau Vasudhatai Deshmukh College of Food Technology, Amravati, Maharashtra
**Rupali Deshmukh**, Doctorate, Sau Vasudhatai Deshmukh College of Food Technology, Amravati, Maharashtra
**Vaishali Dasriya**, Student, ICAR-National Dairy Research Institute, Karnal, Haryana

Cookies so-referred to as confectionary products which are consumed by al the age groups it is also an excel ent source and very convenient to get. According to the human diet, nowadays there is a lack of protein fibers and fat i.e.omega-3 fatty acid as per research, flaxseed contains omega -3 fatty acid (– linoleic acid (ALA) lignans, fiber, protein. This provides different health benefits such as reduction of heart disorders, cancer, and mental health. Due to this consumption of flaxseed in human

**Keywords:** Flaxseeds Omega -3, Fatty Acid, Lignan

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 53 A comparative analysis of seventh party logistics using AHP and FAHP

Paper ID V6I2-1243 · Pages 249-253 · Mechanical Engineering

**J. Praveena**, Research Scholar, Andhra University College of Engineering, Visakhapatnam, Andhra Pradesh
**M. Pramila Devi**, Professor, Andhra University College of Engineering, Visakhapatnam, Andhra Pradesh

The aim of work is to investigate the important benefits and parameters of decision-making models in the ever-changing technological world of business. Decision-making models are helping function for decision-makers to make future objectives by using qualitative and quantitative data. In the present research work is a general idea about MCMD and comparison between two models. Analytical Hierarchy Process (AHP) and Fuzzy Analytical Hierarchy Process (FAHP) are used in the selection of a seventh party logistics (7pl)and comparative analysis results. MCMD is used with many complex problems, in the present paper seventh party logistics service providers are based on the selection of criteria and sub-criteria. Decision-makers can use this paper for choosing the suitable 7pl required for their operations.

**Keywords:** Analytical hierarchy process (AHP), Fuzzy analytical hierarchy process (FAHP), MCMD, Criteria.

Read Full Paper · Download PDF · Back to index

## 54 A Brief Introduction on Artificial Intelligence

Paper ID V6I2-1238 · Pages 254-257 · Computer Science Engineering

**Mohammed Ahmed Ali**, Student, BMS College of Engineering, Bangalore, Karnataka

When we think about the term “artificial intelligence”, many of us imagine an army of human-like robots rebelling against humanity, while a few people from a more positive thinking community are envisioning a brighter future where AI serves them in all possible ways from preparing your regular coffee with the right amount of sugar to personalizing and prioritizing your office activities. AI should be seen as a broad concept in which machines can deal with tasks in a way we would call intelligent or smart. AI is a bunch of technologies that include machine learning and some other technologies like natural language processing (NLP), inference algorithms, neural networks, etc. To tick the box of being called AI, machines/programs must be capable of a few things. It should be able to mimic the human thought process and behavior and also act intelligent, rational and ethical just like the way humans do. AI has already made its way in our day-to-day lives through several applications we use but are not aware of. For example, personal assistants like Apple's Siri or Google's Google Assistant or Amazon's Alexa are some of the most widely used digital assistants who employ the concept of Artificial Intelligence like recognizing voices of various users, analyze the information they are given and provide an answer or a solution. There are many more examples. Experts predict AI will outperform humans at virtually everything in the following 45 years.

**Keywords:** Algorithm, Machine Learning, Deep Learning, Neural Networks, Intelligence, Automate

Read Full Paper · Download PDF · Back to index

© 2020, IJARIIT.COM All Rights Reserved

## 55 Automatic street light intensity control

Paper ID V6I2-1169 · Pages 258-261 · Electronic And Communication Engineering

**Prakash V.**, Student, Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu
**Pavithra D.**, Student, Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu
**Nisha R.**, Student, Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu
**Nishanthini P.**, Student, Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu

This paper aims at designing and executing the advanced development in embedded systems for energy saving of street lights. Nowadays, human has become too busy and is unable to find time even to switch the lights wherever not necessary. The present system is like, the street lights will be switched on in the evening before the sun sets and they are switched off the next day morning after there is sufficient light on the roads. This paper gives the best solution for electrical power wastage. Also, the manual operation of the lighting system is completely eliminated. In this paper, the two sensors are used which are Light Dependent Resistor LDR Sensor to indicate a day/night time and the ultrasonic sensors to detect the movement of the object. when the movement of the object is not detected in the ultrasonic sensor it becomes glow in low intensity And if anyone crosses the sensor path at that time it will glow at high intensity. After the object passes away from the sensor path it automatically converts high intensity to low intensity.

**Keywords:** Arduino, Ultrasonic Sensor, Node MCU, CF bulb, Potential Transformer, Current Transformer, Embedded C

Read Full Paper · Download PDF · Back to index

---

## 56 Impact of Modi Government on Stock Market Returns

Paper ID V6I2-1235 · Pages 262-265 · Bachelor In Business Administration

**Harsh Arora**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

This study is aimed at examining the relationship between the Indian election and NIFTY and to examine the usefulness of the volatility index as a risk management tool for stock market trading. It is found that the relationship between NIFTY and election results is strong. The linear association between the election result and NIFTY is statistically significant.

**Keywords:** Stock Market Closing Price, Volume of Stock Traded, Election Result

Read Full Paper · Download PDF · Back to index

---

## 57 IoT based intelligent jacket

Paper ID V6I2-1242 · Pages 266-269 · Computer Science And Engineering

**Pratiksha Patil**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Dhanashree A. Kambli**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Rishikesh Vanjare**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Siddhi A. Kolekar**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Ravina R. Kurane**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**M. A. Pardesi**, Professor, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra

“IoT Based Intelligent Jacket” gives an intelligent jacket that gives security for girls' safety and blind support. In

© 2020, IJARIIT.COM All Rights Reserved

the global scenario, the prime question in every girl's mind is about her safety and harassment issues. The simplest notion haunting every female is when they may be able to move freely on the streets even in bizarre hours without demanding about their protection. This assignment suggests a new generation to shield a ladies. The 2nd scenario is set the blind people, Blind individuals war when visiting from place to region and depend on predefined and repetitive routes with a minimum impediment to guide them to their destination without an assistant. The task also makes a specialty of navigation of the visually impaired system. "IoT Based Intelligent jacket" gives a sensible jacket that provides navigation for girls protection, visually impaired people. The machine encompasses ultrasonic sensor, GSM, GPS Sensor, Arduino UNO, Node MCU, Buzzer, Power supply, smartphone.

**Keywords:** Arduino UNO, Ultrasonic, GPS, GSM, Node-MCU, Solar panel, Smartphone, Jacket.

Read Full Paper · Download PDF · Back to index

---

## 58 The effective vocabulary learning strategies employed by ESL learners in rural setting

Paper ID V6I2-1241 · Pages 270-275 · English

**Puspanathan Subramaniam**, Student, National University of Malaysia, Selangor, Malaysia
**Dr. Parilah Md. Shah**, Professor, Faculty of Education, Selangor, Malaysia

The Malaysian Education Blueprint (2015-2025) is formulated to ensure every child acquire linguistic knowledge and communicative skills adequately to compete in the modernized arena. In the Malaysian context, 21st-century learning strategy has been given the utmost importance in the educational system as it is a platform to have students become proficient users of the second language. However, the lexical knowledge among Malaysian students is at an unsatisfactory level whereby the vocabulary learning strategies have not been prioritized in the learning process. This study is intended to unveil the effectiveness of vocabulary learning strategies that students can employ to enhance their lexical knowledge. To achieve the aims of the study, a simplified questionnaire was used to retrieve the quantitative data. Approximately 61 pupils from the Chinese vernacular schools in Sungkai, Perak with satisfactory language proficiency from the rural primary schools in Batang Padang District were selected as participants in this study. The findings of the study indicated that varied preferred learning strategies have been employed in learning vocabulary. The number of students represented by the percentages showed a significant increase that portrayed students' admit to learning vocabulary. In a conclusion, Nation (2001) emphasized on noticing the words to be learned would be a preferred strategy simply by jotting the words down in the notebook or word card and constantly repeating the words for a deeper understanding of the words.

**Keywords:** Learning strategies, Linguistic knowledge, Communicative skills, Lexical knowledge

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 59 E-Commerce REST API with JWT authentication

Paper ID V6I2-1247 · Pages 276-280 · Computer Science Engineering

**Mariam Ahmedullah**, Student, ISL Engineering College, Hyderabad, Telangana

E-commerce is one of the fastest-growing industries around the world. Therefore, it is of immense importance to build these services with a reliable backend coupled with high-grade security. The study of this project is to integrate REST API services into the production of e-commerce backend coupled with JWT authentication system

**Keywords:** E-commerce, REST API, JWT authentication.

Read Full Paper · Download PDF · Back to index

---

## 60 Impact of tourism in India due to Coronavirus

Paper ID V6I2-1256 · Pages 281-282 · General Management - Tourism

**Ravishankar Balakrishnan**, Research Scholar, Vellore Institute of Technology, Vellore, Tamil Nadu
**Prabu B. Christopher**, Assistant Professor (Senior), Vellore Institute of Technology, Vellore, Tamil Nadu

India tourism affected to the extent due to COVID-19 (Coronavirus disease-19). The news related to the virus's susceptibility is predominantly in the Asian region and official coronavirus reports cause fears and affect Indian tourism. The purpose of this study is to provide the impact of tourism in India due to Coronavirus. The method used in this conceptual work is based on literature reviews from articles, and online news related keywords and research.

**Keywords:** COVID-19, Travel, Tourism

Read Full Paper · Download PDF · Back to index

---

## 61 Statistical analysis of exchange rate of Australian Dollar

Paper ID V6I2-1233 · Pages 283-286 · Statistical Analysis

**Anshika Tyagi**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

The Research Paper contains the data of the Exchange Rate of Australian Dollar from the year 2000 to 2019. The analysis has been done to understand the trend in the Exchange Rate of Australian Dollar using 3 yearly moving average and least square method. It also helps in understanding the future trends in the Exchange Rate of Australian Dollar.

**Keywords:** Exchange rate, Australian Dollar, Moving Average, Future trends

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 62 A real-time autonomous waste-collecting robot

Paper ID V6I2-1261 · Pages 287-289 · Electronics And Communication Engineering

**Pratheepkumar V.**, Student, Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu
**Prabha K. S.**, Student, Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu
**Prabakar K.**, Student, Dr. N.G.P. Institute of Technology, Coimbatore, Tamil Nadu

Nowadays, Collecting and segregating waste has become one of the greatest challenging and arduous chore for municipal corporations, all around the globe. To make this tedious job facile, a new concept of the autonomous waste-collecting robot has been taken into consideration for Smart buildings, hospitals, schools, and railway stations. The autonomous waste collector thought is an advancement of traditional waste collectors by levitating it to become smart inculcating sensors and some form of logic. This autonomous collector is a revolutionary idea of application of line following and pick and place robot.IR sensor makes the use of line following robot, the ultrasonic sensor makes the user detect the waste, DC motors are used to collect the waste and RFID used to make the location of the waste to the robot. The advantage of this project is the ability of the robot to separate metallic and non-metallic waste by using a metal detector. This is thereby a fully automated system, making a small contribution towards the theme of Clean India Green India.

**Keywords:** Waste collecting robot, IR sensor, Ultrasonic sensor, Metal detector, Arduino, RFID, DC motors.

Read Full Paper · Download PDF · Back to index

---

## 63 E-Challan Generation using QR code

Paper ID V6I2-1193 · Pages 290-292 · Computer Science And Engeneering

**Gouri Chavan**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Megha Khot**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra
**Panchshila Kamble**, Student, D. Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra

During the past few years, traffic accidents & breaking traffic rules has increasing day by day. This work aims at implementing a vehicle document check system where information is retrieved from the database by the traffic police using their Smartphone and the physical documents are not needed to be carried along thereby saving time of filling details manually. QR code is the treadmark for a type of matrix barcode, and QR code is developed in 1994 which has become admired outside the automotive industry due to its fast readability and greater storage capacity compared to standard Universal Product Code (UPC) barcodes. OCR is Optical Character Recognition to convert the electrical images into the machine encoded text for many purposes. This work takes an account of QR codes and OCR, at the front end, android application is created with which traffic police can scan the QR code or number plate using QR code scanner or OCR scanner respectively on officer's phone and all the details about the owner of the vehicle will be shown on the phone and accordingly E-Challan will be generated and sent to the vehicle owner through SMS. Thus, this work is an attempt to highlight the automatic generation of E-Challan using QR codes and OCR.

**Keywords:** Qr Code, Smartphone, Vehicle.

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 64 Impact of employee involvement on organizational performance – A study of Visakhapatnam Steel Plant

Paper ID V6I2-1269 · Pages 293-296 · Hrm

**B. V. S. P. R. Vithal**, Research Scholar, Acharya Nagarjuna University, Guntur, Andhra Pradesh
**Dr. Naga Raju Battu**, Chairman-Board of Studies, Acharya Nagarjuna University, Guntur, Andhra Pradesh

The efficiency and effectiveness of processes executed in any organization are dependent on people who execute the same. As per the literature of Managerial Economics, there are Four factors of Production viz., Men, Material, Machinery and Money. The Men play the key character in controlling ad regulating the remaining factors of production in an efficient manner if they are inclined to do so. Hence, it is essential to ensure that, people are in possession of a positive attitude towards their organization, co-workers as well as the management. People with a positive attitude feel satisfied with their job and tend to exhibit a commitment to their work and strive for the fulfillment of organizational Goals and Objectives. Winning the attitude of the employees is not an easy task in the current era owing to the modern scenario of growing interests, increasing technology and Inflation, diminishing the value of money and monthly earnings. Hence, the strategic and scientific Management experts rightly concluded that instead of making the people motivated through Extrinsic benefits. It is quite wise to make them self-motivated by offering Intrinsic benefits. These intrinsic benefits include Freedom to work, provision of Challenging work and an environment where the people are involved in making decisions that exert impact on their work, work environment, and working conditions. Hence, in the modern organizational scenario, it is extremely essential that the management should ensure the involvement of its employees, which makes them self-motivated, satisfied and committed to the organization's Objectives.

**Keywords:** Employee Involvement, Organizational Performance

Read Full Paper · Download PDF · Back to index

---

## 65 Semi Autonomous Firefighting Drone

Paper ID V6I2-1270 · Pages 297-300 · Computer Science

**S. Krishna Prasad**, Student, Rajalakshmi Engineering College, Chennai, Tamil Nadu
**A. Karthikeyan**, Student, Rajalakshmi Engineering College, Chennai, Tamil Nadu
**Kiran Tom Gijo**, Student, Rajalakshmi Engineering College, Chennai, Tamil Nadu
**S. Dhanasekaran**, Assistant Professor, Rajalakshmi Engineering College, Chennai, Tamil Nadu

Most of the time fire occurs in unpredicted locations. It may occur in forest, buildings or in the middle of ocean. This paper talks about the extinguishing of fire using drones, fire accidents could be critical and accessing the situation at an early stage is very important in order to suppress the fire and evacuate the residents, as well as in the recent times forest and bush fires too have become a matter of concern which we face a hard time extinguishing as the fire fighters can't reach out to first in dense forests. In these cases, aerial robot platforms have advantages because of its ability to access the place that is hard to reach. This paper elaborates ways to develop a firefighting UAV that operates in a Semi-autonomous manner by using Monoammonium-phosphate (NH4H2PO4) payload as the fire extinguishing agent.

**Keywords:** Quadcopter, GPS, Sensor, Motor, Extinguisher, Fire, Communication, Semi-autonomous

© 2020, IJARIIT.COM All Rights Reserved

Read Full Paper · Download PDF · Back to index

## 66 Analysis of ECG signals for detection of sleep apnea

Paper ID V6I2-1250 · Pages 301-305 · Signal Processing

**Harshitha Uppala**, Student, K L University, Vaddeswaram, Andhra Pradesh
**Ratna Prakash**, Student, K L University, Vaddeswaram, Andhra Pradesh

Electrocardiography (ECG) signals are widely used to gauge the health of the human heart, and the resulting time-series signal is often analyzed manually by a medical professional to detect any arrhythmia that the patient may have suffered. Much work has been done to automate the process of analyzing ECG signals, but most of the research involves extensive preprocessing of the ECG data to derive vectorized features and subsequently designing a classifier to discriminate between healthy ECG signals and those indicative of an Arrhythmia. This approach requires knowledge and data on the different types of Arrhythmia for training. Detecting abnormal heartbeats from an electrocardiogram (ECG) signal is an important problem studied extensively and yet is a difficult problem that defies a viable working solution, especially on a mobile platform which requires computationally efficient and yet accurate detection mechanism. However, the heart is a complex organ and there are many different and new types of Arrhythmia that can occur which were not part of the original training set. Thus, it may be more prudent to adopt an anomaly detection approach towards analyzing ECG signals. .We use various algorithms and methods and constructed a code for classifying the arrhythmia based on the variations in the signals and putting up a threshold value for every particular category respectively

**Keywords:** Anomaly detection, Arrhythmia, Electrocardiogram, ECG signals.

Read Full Paper · Download PDF · Back to index

## 67 Fake news analyzer

Paper ID V6I2-1259 · Pages 306-308 · Computer Engineering

**Ruchika Mahajan**, Student, Cummins College of Engineering for Women, Nagpur, Maharashtra
**Sanskruti Godbole**, Student, Cummins College of Engineering for Women, Nagpur, Maharashtra
**Vedanti Manjule**, Student, Cummins College of Engineering for Women, Nagpur, Maharashtra
**Prasanna Lohe**, Professor, Cummins College of Engineering for Women, Nagpur, Maharashtra

Social media is a platform which acts as a chain for spreading of diversified news. Its cheap cost, fast access, and quick circulation and broadcasting of information help people to look out and consume news from social media. In today’s era, online social media plays a crucial role during real-world practical events, especially climacteric events or events that gain huge social attention from the population of the world. Apart from legitimate news information, malicious content, mean-spirited, vindictive and misleading information is also put online during these events, which can result in harm, chaos and monetary loss in the practical world. In our paper, we draw attention to the role of Twitter in analyzing a major ongoing event of India: NRC and the Citizenship Amendment Act in spreading fake content about these events. We elaborate on the gathering, elucidation, and validation process in detail and perform much exploratory analysis on the recognition of linguistic differences in fake and real or legitimate news content. Also, we aim to find out the source or origin of

© 2020, IJARIIT.COM All Rights Reserved

the fake news and the sources who help to spread the fake content. Secondly, we aim to perform a set of learning experiments to find out accurate fake news and their sources. Besides, we provide a relative analysis of the automatic and manual identification of fake news with the legitimate informants of the news content. This paper proposes a system that identifies unreliable and false news after analyzing and computing the set of data. This system aims to use various NLP algorithms and classification algorithms or techniques to help achieve maximum accuracy in finding the fake news.

**Keywords:** Twitter API, Random forest, Natural language processing algorithms, Naive Bayes, Bagging.

Read Full Paper · Download PDF · Back to index

---

## 68 Estimation of chemical and sensory aspect of oats and dates chocolate

Paper ID V6I2-1264 · Pages 309-311 · Food Technology

**Sarvesha Dendavey**, Student, Sau Vasudhatai Deshmukh College of Food Technology, Amravati, Maharashtra
**Nikhil Deshmukh**, Student, Sau Vasudhatai Deshmukh College of Food Technology, Amravati, Maharashtra

Cereal grains are more beneficial in our life. Whole grains as a part of a healthy diet have reduced the risk of some chronic diseases. Oats and Dates contain high amount of nutrients, fiber, vitamins, minerals and disease-fighting antioxidants. At present the food product are high in cost and not much as nutritive. So comparatively cereal grain product are easily available and low in cost and highly nutritive. One of the part of this product oats and dates are more beneficial for children. Dark chocolate contains magnesium, iron &powerful source of antioxidants and it maintains blood flow. These Oats and dates with chocolates are more effective and energetic for a child's growth and development.

**Keywords:** Oats, Dates, Dark Chocolate, CHD, Diseases, High Nutritient

Read Full Paper · Download PDF · Back to index

---

## 69 Advanced Medical Chatbot based on named data networking

Paper ID V6I2-1268 · Pages 312-314 · Computer Engineering

**Anup Lengure**, Student, Trinity College of Engineering and Research, Pune, Maharashtra
**Pratik Gaikwad**, Student, Trinity College of Engineering and Research, Pune, Maharashtra
**Ashutosh Chaudhari**, Student, Trinity College of Engineering and Research, Pune, Maharashtra
**Aditya Deshpande**, Student, Trinity College of Engineering and Research, Pune, Maharashtra

© 2020, IJARIIT.COM All Rights Reserved

The aim of a chatbot is to make human and machine interaction possible. In this scenario, the chatbot is a medical consultant between the patients and the doctors. For this purpose, there is a need of the Human-Computer Interaction(HCI) research which includes study and implementation intended for human use. So we design a system that uses Artificial Intelligence Markup Language(AIML) and Natural Language Processing(NLP). And for the purpose of communication needs, we use Name Data Networking(NDN) instead of the typicalIP protocol. NDN provides two essential properties which are its Consumer Driven Nature in Communication and the privacy it provides. The motivation behind the idea is that much of the needed answers are available on the internet about the medication which the chatbot provides in a friendly manner and if there are serious issues provide consultations as well as appointments with the Doctor as early as possible.

**Keywords:** Chatbot, Named Data Networking

Read Full Paper · Download PDF · Back to index

---

## 70 Snake robot for metal detection

Paper ID V6I2-1283 · Pages 315-317 · Computer Science Engineering

**Sasanka Pavani Somarouthu**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Siraparapu Renuka**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Sasanapuri Sameera**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Shaik Sharifa**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh

Robots have been and will always be a research topic. This paper illustrates the working of a Snake robot which is constructed by chaining together a number of independent segments which makes it hyper redundant. Snake robot can maneuver through thin spaces due to its shape and hence very helpful at places where human reachability is difficult. This robot moves by avoiding the obstacles in its path. In this project work, we have included a metal detection sensor in this robot so that it can be used in a variety of applications like landmine detection for military purposes. The communication to the robot is done via Bluetooth and operated from an android phone. With further innovations, the snake robot can be used in a large number of applications.

**Keywords:** Snake robot, Object detection, IR sensor, Metal detection, Bluetooth module, Arduino nano

Read Full Paper · Download PDF · Back to index

---

## 71 Synthesis and anti-inflammatory activity of some 2-(3’-aminesubstituted)-7-hydroxyl-4H-1-benzopyran-4-one derivatives

Paper ID V6I2-1258 · Pages 318-321 · Synthesis And Molecular Docking Study

**Awinash Chavan**, Assistant Professor, Raosaheb Patil Danve College of Pharmacy, Badnapur, Maharashtra
**Prafulla Sabale**, Associate Professor, R. T. M. Nagpur University, Nagpur, Maharashtra

A series of 2-(3’-aminesubstituted)-7- hydroxyl-4H-1-benzopyran-4-one amine derivatives has been synthesized by condensation of 2,4-Dihydroxyacetophene (1.40 ml) and 3-Chlorobenzaldehyde (0.01 mole) through Claisen-Schmidt condensation reaction. Novel flavone derivatives were access for anti-inflammatory activity by using carrageenan induced rat paw edema method. Among the synthesized compounds (t, v, w, k) shows good anti-

© 2020, IJARIIT.COM All Rights Reserved

inflammatory activity comparable to reference drug (Celecoxib).

**Keywords:** Synthetic Flavone, Claisen-Schmidt Condensation Reaction, Anti-inflammatory, Celecoxib

Read Full Paper · Download PDF · Back to index

---

## 72 Design and fabrication of solar air cooler cum room heater by using Peltier Effect

Paper ID V6I2-1257 · Pages 322-325 · Mechanical Engineering

**Yogita Jagannath Jadhav**, Student, New Horizon Institute of Technology and Management, Thane, Maharashtra
**Suruchi Ulhas Pednekar**, Student, New Horizon Institute of Technology and Management, Thane, Maharashtra
**Kalyani Shelke**, Student, New Horizon Institute of Technology and Management, Thane, Maharashtra
**Snehal Shinde**, Student, New Horizon Institute of Technology and Management, Thane, Maharashtra

It is the idea of producing a cooling and heating effect in one single chamber that shifts from its maximum temperature to its minimum temperature just by adjusting a simply operated switching button. This type of device can find a wide variety of applications in medicinal, food and beverage transportation commercially and also for household purposes. Travelers can make the best use of it. This can work either with solar power or rechargeable batteries and Peltier effect Design and Fabrication done on solar air cooler cum heater.

**Keywords:** Solar Power, Cooling, Heating

Read Full Paper · Download PDF · Back to index

---

## 73 Design and modification of smart stick for visually impaired with stick finder

Paper ID V6I2-1276 · Pages 326-328 · Mechanical Engineering

**Nagma Salim Khan**, Student, New Horizon Institute of Technology and Management, Thane, Maharashtra
**Ankita Ashok Gaud**, Student, New Horizon Institute of Technology and Management, Thane, Maharashtra
**Harsha Rajesh Khanvilkar**, Student, New Horizon Institute of Technology and Management, Thane, Maharashtra
**Rasika Nishikant Shelar**, Assistant Professor, New Horizon Institute of Technology and Management, Thane, Maharashtra

© 2020, IJARIIT.COM All Rights Reserved

To improve navigation of visually disabled people we have designed an innovative stick using Arduino. Thisstick uses advanced technology to navigate with ease. The stick which we have modified is lighter in weight, affordable and easy to handle. This stick first uses ultrasonic sensors and detects obstacles. On sensing obstacles, the sensor passes this data to Arduino. Arduino uses C programming. It then processes this data and calculates the distance of obstacles from the person. If an obstacle is not close to the person then the circuit stays steady. If the obstacle is close to the person then the circuit sends a signal to the sound buzzer and vibrator. As the distance between person and obstacle gets reduced the sound of buzzer and vibrator goes on increasing. This system is even made for blind-deaf people as they have only sense as a way to understand any process with the help of vibration they can sense the obstacle. This system has one more feature i.e. A stick finder. This helps the blind person find the stick where they might have kept it with the help of a remote. Pressing the remote button sounds a buzzer on the stick which helps the person to find the stick. Thus, this system allows for obstacle detection as well as finding sticks misplaced by visually disabled people.

**Keywords:** Arduino, Ultrasonic sensor, C programming, Blind-deaf.

Read Full Paper · Download PDF · Back to index

---

## 74 Impact of industrial democracy on job satisfaction, commitment and engagement of employees: A study of Visakhapatnam steel plant

Paper ID V6I2-1282 · Pages 329-333 · Hrm

**B. V. S. P. R. Vithal**, Research Scholar, Acharya Nagarjuna University, Guntur, Andhra Pradesh
**Dr. Naga Raju Battu**, Associate Professor, Chairman, Acharya Nagarjuna University, Guntur, Andhra Pradesh

The meaning of ‘Democracy’ resembles a social environment where Governments are of the People, run by the People and run for the People. Similarly, the term ‘Industrial Democracy’ can be understood as Management of Organization is of the employees, by the employees, and for the employees. Enough research has been undertaken in the field of Employee Involvement and its influence on Organizational performance. Many of the Management experts, Researches and Scholars have used the terms Employee Involvement and Industrial Democracy interchangeably. However, Employee involvement is a mere scheme adopted by the Organizations to make their employees take part in making decisions that affect their jobs, job conditions and job environment. The idea behind this scheme is to utilize their creative and innovative potential and also to ensure hassle-free implementation of decisions since they are generated by a team where the actual performers (employees) are also a part. Making employees take part in decision-making is proven to make them feel important, satisfied and committed to the Organizational goals. On the other hand, the concept of Industrial Democracy provides answers to the questions – Why should people involve? What makes them involve? What benefit they do anticipate? How they should involve? and so on. Thus, Industrial Democracy encompasses all aspects of HRM-related to employee welfare, Industrial relations, etc. The present study is aimed at examining the impact of Industrial Democracy on employees’ Job satisfaction, Commitment and Engagement as they are promoters of enhanced production and productivity of the organizations.

**Keywords:** Industrial democracy, Job Satisfaction, Commitment, Engagement

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 75 A critical review on performance of solar air heaters technologies and techniques

Paper ID V6I2-1288 · Pages 334-354 · Heat Transfer

**Dr. Ashwini Kumar**, Doctrate Degree Holder, National Institute of Technology, Jamshedpur, Jharkhand
**Avinash**, Student, Bhopal Institute of Technology and Science, Bhopal, Madhya Pradesh
**Suresh Kumar Badholiya**, Assistant Professor, Bhopal Institute of Technology and Science, Bhopal, Madhya Pradesh
**Rohit Kumar Chaudhry**, Assistant Professor, Bhopal Institute of Technology and Science, Bhopal, Madhya Pradesh

The use of flat solar air heaters is extensively worked out in low-temperature solar energy utilization. The efficiency of such heaters has to be low because of the low convective heat transfer coefficient between absorber plate and flowing air which increases the absorber plate temperature, leading to higher heat losses to the ambient. Several designs of solar air heaters having different roughness geometries have been done by a number of investigators. The present paper deals with a comprehensive review of different technologies and methodologies applied for different designs to attain an appropriate enhancement in heat flux. Analytical and experimental result as well as worked out values of result with respect to heat transfer data in terms of Nusselt number, utilizing the equations or correlations developed by various researchers and investigators have been represented with respect to the roughness and flow parameters (p/e, e/D and Re), for the comparison of the rate of heat transfer. The experimental values of the average Nusselt number for multi V roughness have been found to be the highest. However, the addition of a booster mirror to increase the rate of radiant energy and the use of computational methodology has been found even better as compared to the previous one.

**Keywords:** Relative roughness pitches (p/e), Relative roughness height (e/D), Flow Reynolds number (Re) and Nusselt number (Nu), Booster mirror, Computational fluid dynamics (CFD)

Read Full Paper · Download PDF · Back to index

---

## 76 A pre-experimental study to assess the effectiveness of plan teaching program on knowledge regarding prevention of sexual abuse among the adolescent girl (age 12-15 year) in selected school of Puliyangudi.

Paper ID V6I2-1274 · Pages 355-356 · Nursing

**Velladurai N.**, Professor, Rohilkhand Medical College, Bareilly, Uttar Pradesh

Adolescents life is full of hopes. The adolescents are Eger to interact with a new experience to find out the relationship to examine the inner strength and explore the strength of inner ability. Sexual abuse is the biggest kept secret in India due to societal denial, ignorance and silence owning to the discomfort generated out of acknowledgment. Sexual abuse also referred to as molestation is the forcing of undesired sexual behavior by one person upon another. When that is immediate of short duration or infrequent. It is called as ‘sexual assault’. In this study, the pre-experimental one group pre-test post-test research design is used and nonprobability convenience sampling is used for selection of the sample, the sample is the adolescent girl of the selected school of Puliyangudi between the age group of 12-15 year of age which is 100 in number. A structured knowledge questionnaire is used to collect the data. The level of knowledge score regarding sexual abuse is (35%) poor, (68%) average 0% good in pre-test score and in the post-test score is 0% poor, 58% average 42% good. Hence the majority of the respondent had average knowledge in pre-test scores. After pre-

© 2020, IJARIIT.COM All Rights Reserved

test and post-test assessment of the level of knowledge, the significant difference between the pre and post-test scores was demonstrated by using the “t’ test and it was found that t= 39.1439. The significant difference between (P) is found between pre-test and post-test. After the planned program there was an increase in the knowledge of the respondent who are exposing to the planned teaching programme, the knowledge score of the students was improved. Hence the planned teaching programme was effective.

**Keywords:** Assess, Plan teaching program, Knowledge, Sexual abuse, Adolescent.

Read Full Paper · Download PDF · Back to index

---

## 77 Pre Experimental study to assess effectiveness of awareness programme on knowledge regarding alcohol abuse and its treatment among the boys of nursing students in S.G.R.R.I.M.& H.S College of Nursing Dehradun Uttarakhand.

Paper ID V6I2-1275 · Pages 357-358 · Nursing

**Gaurav Pratap Singh**, Assistant Professor, Keshlata School of Nursing, Bareilly, Uttar Pradesh, India

Today's student is tomorrow's citizen it is necessary for us to prevent adolescents to become prone to substance abuse. Adolescence is a period when a lot of change takes place in the body and mind. Adolescents start to using harmful and illegal substances Drinking, smoking .and .drug abuse by adolescents affect general health and physical growth, emotional development and school performance. Continue use of this substance can lead to physical and psychological harm; it is very difficult to stop. According to WHO 8.9% of the total burden of disease due to the use of the psychoactive substances in which 4.1% is alcohol,0.8% by illicit drug abuse of the burden of disease. There are 2 billion are alcohol users globally according to WHO. in this study the pre-experimental research design is used and a convenient sampling technique is used for the selection of sample the structured questionnaire is used for the collection of data. The sample size is 60 boys nursing student .the level of knowledge score regarding alcohol abuse and its treatment among the boys students is different according to the age group the finding of study concludes in between (17-19 year) is 39.99%,(20-22 year) is 46.66% and 23-25 year) is 13.33%. the reason for conducting the study because majority of students are in adolescents' age and they are more prone to using alcohol at that age.

**Keywords:** Effectiveness, Awareness, Knowledge, Alcohol abuse, Nursing

Read Full Paper · Download PDF · Back to index

---

## 78 Analytical overview of defuzzification methods

Paper ID V6I2-1278 · Pages 359-365 · Fuzzy Systems

**K. S. Gilda**, Assistant Professor, College of Engineering and Technology, Akola, Maharashtra
**Dr. S. L. Satarkar**, Associate Professor, College of Engineering and Technology, Akola, Maharashtra

Fuzzy systems are of basically two types- fuzzy controllers and fuzzy reasoning systems. Defuzzification is the last step of the fuzzy system, which converts the fuzzy output set to a crisp value. This paper discusses the essential set of parameters that a defuzzification method should exhibits. Classification of different defuzzification methods is presented and each method is evaluated briefly based on the parameters discussed. The analysis of these methods emphasizes the need for a defuzzification method suitable for fuzzy reasoning

© 2020, IJARIIT.COM All Rights Reserved

systems as well as fuzzy controllers.

**Keywords:** Defuzzification, Parameters, Fuzzy, Membership function

Read Full Paper · Download PDF · Back to index

---

## 79 A literature review on physio-chemical parameters of domestic grey water of residential building

Paper ID V6I2-1280 · Pages 366-370 · Waste Water Management

**Ar. Niranjan Vilas Sangawar**, Student, SPSMBH's College of Architecture, Kolhapur, Maharashtra

One of the most persistent complications of today is water inadequacy. International Water Management Institute has been estimated that one in three persons will face water inadequacy by the year 2025 in India and as per the United Nations report 2016 around 2.7 billion people by the same time worldwide. Although India occupies only 3.29 million km2 geographical areas which form 2.4% of the world's land area, it supports over 15% of the world's population with only 4% of the world's water resources. With augmented population progression and development, there is a need to critically look at alternative approaches to ensure water availability. These alternative resources include rainwater and bulk of water used in the household will emerge as greywater and contain some organic waste materials dissolved and suspended in it. When this is allowed to flow out this will join the sewage and bacteriologically contaminated, resulting in a sewage stream. It is possible to intercept this greywater, at the household level, treat it so that it can be recycled for use of other purposes.

**Keywords:** Physio-Chemical Parameters, Grey Water, Water Scarcity

Read Full Paper · Download PDF · Back to index

---

## 80 Artificial Intelligence in Software Defined Networking

Paper ID V6I2-1287 · Pages 371-379 · Computer Science

**Arhaan Aggarwal**, Student, Independent Researcher

This paper focuses on the challenges and opportunities of Software Defined Networking (SDN), as well as how to select the best possible SDN controller, which will help reduce the complexity of a network, price of implementation, and the maintenance of a network in any big organization. This is followed by a basic introduction to Artificial Intelligence and some of its important domains and their use in SDN.

**Keywords:** Software Defined Networking, Artificial Intelligence, OpenFlow, Machine Learning

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 81 Auto maintenance of poultry farm

Paper ID V6I2-1291 · Pages 380-382 · Electronics And Communication Engineering

**Oviya M.**, Student, JEPPIAAR SRR Engineering College, Chennai, Tamil Nadu
**Susan Mano Derry V.**, Assistant Professor, JEPPIAAR SRR Engineering College, Chennai, Tamil Nadu
**Pavithira B.**, Student, JEPPIAAR SRR Engineering College, Chennai, Tamil Nadu
**Nesavi S.**, Student, JEPPIAAR SRR Engineering College, Chennai, Tamil Nadu

The main idea of our project is to find the poultry farm parameters like Moisture, Temperature, water and feeding the chicks using temperature and humidity sensor, level sensor and timer. Moreover, we just update these values to the farmer using GSM, so that the users can get to know about the parameters of their farm from any distinct points away from their farm. The user can also manipulate and control the device which will be placed on the farm like turning OFF and ON through the mobile itself. Thus, the user can get details about their farm and also control the whole hardware device being in any part of the world away from their farm. Thus, our solution turns out to be a cost-effective one and also promotes healthy and efficient monitoring of poultry farms.

**Keywords:** Arduino UNO, Sensors, Relay, GSM module.

Read Full Paper · Download PDF · Back to index

---

## 82 Image de-noising and segmentation based on Fuzzy C-means clustering using Gaussian Noise

Paper ID V6I2-1303 · Pages 383-386 · Electronics And Communication Engineering

**D. Deepan**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**N. Vishal**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**Devanshu Gedam**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**G. Hari Aditya**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**V. Reji**, Teacher, SRM Institute of Science and Technology, Chennai, Tamil Nadu

Image sweetening technology is the most efficient essential technologies in the image process field. The aim of image sweetening is to boost the interpretability or perception of knowledge in pictures for human viewers or to supply `better' Input for alternative machine-controlled image process techniques. Image Segmentation is one in every of the very important steps in the Image process for gathering data from the photographs. To check the effectiveness of noise in pictures, a noise like Gaussian noise measure added to the first image. The separate wave remodels (DWT) and Thomas Bayes Shrink soft thresholding is then applied for the removal of clamorous pixels and to smoothen the image. The planed technique is additional economical than the abstraction domain-based technique, is found to supply higher sweetening compared to alternative compressed domain-based mostly approaches. Within the end, the fuzzy-based mostly changed FCM bunch is performed on the de-noised pictures to provide clusters of segmented results.

**Keywords:** Image Segmentation, Discrete Wavelet Transform, Gaussian Noise, Bayes Shrink Soft Thresholding, FCM Clustering

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 83 Performance analysis of low power 1-Bit CMOS full adder

Paper ID V6I2-1251 · Pages 387-389 · Electronics And Communication Engineering

**Nafies**, National Engineering College, Kovilpatti, Tamil Nadu
**Jenith K.**, National Engineering College, Kovilpatti, Tamil Nadu
**Gowtham I. R.**, National Engineering College, Kovilpatti, Tamil Nadu
**Arun Samuel T. S.**, National Engineering College, Kovilpatti, Tamil Nadu

One-bit full-adder efficiency and interpretation are anatomized into smaller parts. Such modules are thoroughly tested. Multiple designs are created, simulated and evaluated for each full adder. Twenty separate 1-bit full-adder modules are designed by integrating the various designs of these modules. Each of these full adder exhibits different power consumption, speed, area, and driving capabilities. Two realistic circuit structures that include full adders are used for simulation. The main aim of our project is to use CMOS technology to construct an optically reconfigurable low power full adder circuit. Analysis of time parameters in all existing full adders and comparison with the time study of our proposed circuit.

**Keywords:** Cadence, CMOS, CPL, Full adder, Power consumption, Transistor, Transmission gates.

Read Full Paper · Download PDF · Back to index

---

## 84 Defect detection in Mango fruit using Image Processing

Paper ID V6I2-1272 · Pages 390-391 · Electronics And Communication Engineering

**Shruti Padmanaban**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**Shobhana M.**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**L. N. Sneha Narasimhan**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu

Image processing technology has been widely used in the agricultural field. Most of it is applied to the robot that can be utilized for picking fruit and for inspection vehicles. Defect detection is a major challenge for computer vision to achieve near-human levels of recognition. The fruits and vegetable defect detection are useful in the supermarkets and can be utilized in computer vision for the automatic sorting of fruits from a set, consisting of different kinds of fruits. The objective of this work is to develop an automated tool, which can be capable of identifying and classifying mango fruits based on shape, size and color features by digital image analysis. However, defect detection by a human is labor-intensive and time-consuming. The proposed methodology is useful in supermarkets for the automatic sorting of fruits from a set of different kinds of fruits. This system minimizes error and also speeds up the time of processing. The objective of this work is to present a novel method to detect surface defects of fruit using RGB images. The proposed method uses pre-processing, segmentation, edge-detection and feature extraction to classify the fruit as defected or fresh. MATLAB has been used as the programming tool for the identification and classification of fruits using the Image Processing toolbox. The proposed method can be used to detect the visible defects, stems, size and shape of mangoes.

**Keywords:** Mango Fruit, Image Processing

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 85 Adapted 8Ds methodology in manufacturing industries for securing customer’s need

Paper ID V6I2-1305 · Pages 392-395 · Management

**Tri Wahjoedi**, STIE Mahardhika Surabaya, Indonesia

This paper explores the contribution that can be given by 8Ds Methodology to secure customer concerns over quality issues and miss delivery of a product which created by production problem and at the end keeping the sustainability of organizations. Specifically analyzing the application of 8Ds Methodology in manufacturing industries located in Surabaya-Indonesia. The research method carried out is through field observations, following the problem analysis, setting up the action recommended and monitoring the progress of communication and result. Empirical evidence adds to the existing literature on this problem by showing the structured approach of 8Ds Methodology and using cause and effect matrix that significantly influences organizational performance in problem-solving of fail production startup and prevents customer complaints due to late product delivery. By following the 8Ds Methodology, strong teamwork, and employee learning behavior of problem-solving, the problem of production failure can finally be resolved and the customer's interests can be saved.

**Keywords:** 8Ds methodology, Customer complaints, Problem-solving, Quality

Read Full Paper · Download PDF · Back to index

---

## 86 Factors affecting the buying decision process of consumers using food delivery Apps in Bangalore

Paper ID V6I2-1306 · Pages 396-401 · Marketing

**Medida Ragh Satya Sai**, Student, Christ (Deemed To Be University), Bengaluru, Karnataka

© 2020, IJARIIT.COM All Rights Reserved

The mobile application era has thrown open a new pathway for today's marketing. The Mobile application as made all traditional modes of business outdated and generated amazing new possibilities in business. Today, more people are getting connected through the mobile application and they are ready to trade through it. Companies have changed their mainstream business strategies into online marketing to suit customer needs and taste at any time. A single platform for ordering from a wide range of restaurants, online food delivery mobile applications have become popular over the years and have become the primary source of income for a lot of restaurants. This trend has changed the mindset of consumers, gratifying users of different age groups. This, indeed, has expanded the daily business of a lot of restaurants, witnessing a boom in the online food delivery system as well as popularizing it across the country. The online food ordering platform sets up a food menu online with the help of applications like Zomato, Swiggy, and FoodPanda. These platforms helpconsumers who don't know how to cook or are on the run and need something to eat on the go. It also freesconsumers from visiting the eateries and also the long wait in restaurants. This research paper aims to discussthe factors that are affecting the buying decision process of the consumers using food delivery apps inBengaluru. The survey was conducted for a purposeful analysis of the study on around 122 respondents. Theresearch is focused on the study and analysis of the data collected from all those users who are already usingonline food delivery services. The main purpose was to know the influencing factors, perceptions, and mindsetbehind using different online portals to order food.

**Keywords:** Food delivery, Consumer Behavior, E-Commerce, Swiggy, Zomato, Millennials, Baby-Boomers

Read Full Paper · Download PDF · Back to index

---

## 87 Transformation of number system

Paper ID V6I2-1307 · Pages 402-406 · Mathematics

**Manjeet Singh**, Student, Parul University, Vadodara, Gujarat

A number is just a combination of some symbols expressed as numerals or digits in any number system, the number of terms in the combination depends upon the base of a number system (or a number of digits/numerals in the number system). Any combination can be represented as (Q)m Where, Q → Combination (or integer) and m → base of a number system (or a number of digits in the system). (11000000)2 → (300)8 → (192)10 → (C0)16 As you can see that a combination 192 in base 10 system have a different number of terms, based on the number system it lies in and as we increase the digits in the number system, the number of terms in the combination decrease but its value remains same. The large combinations in our base 10 system, can be a small combination in a base m system having a very large value of m. In base 10 system a combination arrives know as infinity and this combination arrive because we have only 10 digits, if we convert this combination in base m system where m →∞, then this combination can become finite in that system.

**Keywords:** flexible number system, base m system

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 88 Design and force analysis of sheet metal operations using press tool for plate leveler

Paper ID V6I2-1316 · Pages 407-411 · Mechanical Engineering

**Akshay P. Gajare**, Research Scholar, Walchand Institute of Technology, Solapur, Maharashtra
**Sanjeev B. Naik**, Assistant Professor, Walchand Institute of Technology, Solapur, Maharashtra

Sheet metal operations are commonly used for producing various components of automobiles and home appliances. This paper deals with a review of the literature on tools used for sheet metal operations and their design and analysis. The objective of this paper is to study the various operations and tools used for sheet metal processes like blanking, piercing and forming, etc. with their pros and cons. The comparison of results is discussed for various designs for compound tools and combination tools. On the basis of results, the new combination tool will be proposed for the plate leveler component used in a domestic refrigerator. The combination tool can be used to carry out dual operations namely piercing and forming simultaneously. Presently the piercing and forming operations are carried out independently on separate machines by using the separate tools in many of the industries. However, the use of the combined tools will reduce process time, operator fatigue and tool cost.

**Keywords:** Sheet Metal, Press Tool, Force Analysis

Read Full Paper · Download PDF · Back to index

---

## 89 Online Auction

Paper ID V6I2-1324 · Pages 412-414 · Computer Science

**Angelina Francis**, Student, Anjuman College of Engineering and Technology, Nagpur, Maharashtra
**Sakshi Lanjewar**, Student, Anjuman College of Engineering and Technology, Nagpur, Maharashtra

Online auction systems are most influential e-business applications. Their impact on trading for businesses, as well as consumers, is both remarkable and inevitable. Online auction has three parts- Admin, Buyer and Seller. The Admin module controls the whole bidding process, registered buyer/seller. And it approves the product by their categories. The Seller uploads the goods for sale with detail, and the buyer bids on the product they are interested in. this is a fully dynamic system which can be operated by the non-technical user too.

**Keywords:** Online Auction, Dynamic

Read Full Paper · Download PDF · Back to index

---

## 90 Cryptocurrency Fluctuations

Paper ID V6I2-1335 · Pages 415-420 · Commerce

**Samrth Kanungo**, Student, NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

Crypto currency, an encrypted, peer-to-peer network for facilitating digital barter, is a technology developed eight years ago. Bitcoin, the first and most popular crypto currency, is paving the way as a disruptive technology to long-standing and unchanged financial payment systems that have been in place for many decades. While crypto currencies are not likely to replace traditional fiat currency, they could change the way

© 2020, IJARIIT.COM All Rights Reserved

Internet-connected global markets interact with each other, clearing away barriers surrounding normative national currencies and exchange rates. Technology advances at a rapid rate, and the success of a given technology is almost solely dictated by the market upon which it seeks to improve. Crypto currencies may revolutionize digital trade markets by creating a free-flowing trading system without fees. In this paper, we analyze the fluctuations in the prices of crypto currencies (bitcoin particularly) and the reasons associated with them.

**Keywords:** Cryptocurrency, Fiat, Revolutionize

Read Full Paper · Download PDF · Back to index

---

## 91 SHARONLAY: A new approach for post endodontic restorations: A Case Report

Paper ID V6I2-1312 · Pages 421-425 · Endodontics And Conservative Dentistry

**Dr. Seema D. Pathak**, Professor, Government Dental College and Hospital, Aurangabad, Maharashtra
**Dr. Darshana Kale**, Student, Government Dental College and Hospital, Aurangabad, Maharashtra
**Dr. Pradnya V. Bansode**, HOD, Government Dental College and Hospital, Aurangabad, Maharashtra
**Dr. M. B. Wavdhane**, Associate Professor, Government Dental College and Hospital, Aurangabad, Maharashtra

Root canal treatment leads to a considerable loss of tooth structure so after completion of root canal treatment it should ideally be followed by a restoration that allows cuspal coverage. This is important as there is a direct relationship between the amount of remaining tooth structure and the ability to resist occlusal forces. The cuspal width to length ratio of 1:2 or more decides whether there is a requirement of a full crown or an onlay. SHARONLAY is a new onlay design providing the necessary reinforcement in a conservative manner and protecting endodontically treated teeth against both vertical and horizontal forces. This case report presents the use of SHARONLAY as a possible alternative for post endodontic restorations.

**Keywords:** SHARONLAY, Root Canal Treatment, Post Endodontic Restoration

Read Full Paper · Download PDF · Back to index

---

## 92 Estimation of the land surface temperature using Landsat data 8 and 5: A comparative analysis of an industrial area from Rajasthan, India

Paper ID V6I2-1318 · Pages 426-436 · Remote Sensing

**Deepika Vashishtha**, Research Scholar, Aligarh Muslim University, Aligarh, Uttar Pradesh
**Seeta Meena**, Research Scholar, University of Rajasthan, Jaipur, Rajasthan
**Amit Sharma**, Research Scholar, Aligarh Muslim University, Aligarh, Uttar Pradesh

Land surface temperature (LST) is the radiative skin temperature of the land derived from solar radiation. It helps in understanding various environmental processes from local to a global scale. However, rapid urbanization and industrialization are also contributing substantially to LST. This present study has been carried out to estimate the Land surface temperature of an industrial area called ‘Neem Ka Thana’ in the eastern Rajasthan using Landsat data 8 and 5. A comparative analysis has also been presented for 1990 and 2019 to understand the magnitude and role of industrialization in increasing the temperature of the land. The LST has

© 2020, IJARIIT.COM All Rights Reserved

been estimated with respect to Normalized Difference Vegetation Index (NDVI) values derived from Red and Near-Infrared bands. The Land Surface Temperature has been estimated using a step by step procedure incorporating Thermal band of Landsat 8 and 5 data for the month of May. This study also explains the shift in the area (sq. km) of temperature category over the period of 30 years and reflects the negative association of LST with NDVI while the positive relationship with NDBI.

**Keywords:** Remote sensing, GIS, Land surface temperature (LST), Urbanization, Industrialization, Normalized difference vegetation index (NDVI), Normalized difference built-up index (NDBI).

Read Full Paper · Download PDF · Back to index

---

## 93 Review of heat transfer enhancement techniques

Paper ID V6I2-1333 · Pages 437-439 · Mechanical Engineering

**Kailash Kale**, Student, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra
**Saurabh Jadhav**, Student, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra
**Nandkishor Sutar**, Student, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra
**Shubham Pardeshi**, Student, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra
**Sourabh Howale**, Student, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra

Heat transfer is a very important process used in the industries, especially in process industries where the raw material is subjected to various processes so as to convert it into finished products. To achieve better heat transfer efficiency of the heat exchanger, maximum heat transfer should take place within the operating temperature range of the fluids in the heat exchanger. The researcher has made an effort to improve the heat transfer rate between two fluids. They have been developed various heat transfer enhancement techniques to improve the heat transfer rate by considering various factors that affect the heat transfer rate such as temperature, the velocity of fluid, turbulence, surface area subjected to heat transfer, etc. These techniques can be classified as active techniques and passive techniques. Active techniques are those who require a power supply for the operation while passive techniques are those who do not require any external power supply for the operation. This paper presents a review of various heat transfer enhancement techniques so that they can be chosen into the industry as per the requirement and according to their relative merits.

**Keywords:** Heat transfer enhancement techniques, Active Techniques, Passive Techniques, Turbulence

Read Full Paper · Download PDF · Back to index

---

## 94 High-Density Immune Vaccine (HDIV) to be explored for fighting COVID-19

Paper ID V6I2-1337 · Pages 440-441 · Biology

**Rani Amol More**, MIPL, Mumbai, Maharashtra

COVID-19 is an infectious disease caused by a newly discovered coronavirus and it spread across geographies, genders and occupations. It appears to plague people ubiquitously including children who, despite hopeful early reports, do not seem more immune to the virus. At present there are many ongoing clinical trials evaluating potential treatments against COVID-19 but there is no specific vaccination to restrict. However, a common statement from all researcher that high immunity patient can fight with it and get recovered. Therefore, needs to develop high-density immune vaccine or medicine to treat COVID-19. Some possible ways to move research

© 2020, IJARIIT.COM All Rights Reserved

forward to create immune vaccine or medicine are proposed herein.

**Keywords:** Corona Vaccine

Read Full Paper · Download PDF · Back to index

---

## 95 Production and optimization of ethanol production from spent tea waste using Saccharomyces cerevisiae

Paper ID V6I2-1330 · Pages 442-446 · Industrial Microbiology

**Satya Rama Devi Nowpada**, Assistant Professor, Maharajah's Post Graduate College, Vizianagaram, Andhra Pradesh

Tea is an aromatic beverage prepared from the leaves of camellia sinesis. It is the most widely consumed drink in the world next to the water. Extracts of tea leaves contain polyphenols, amino acids, vitamins, polysaccharides and have a stimulatory effect due to its caffeine content. Consumption of tea in India remains modest and due to the presence of carbohydrates tea waste spent is used as a potential substrate for ethanol production. However worldwide demand for ethanol production has been increased in recent years so utilization of leftover tea spent for ethanol production may reduce the cost of the fermentation process. optimization conditions for high levels of ethanol production from leftover tea spent using saccharomyces cerevisiae were determined by alterations of temperature and pH and finally, comparative studies of ethanol production using natural tea spent media to that of commercial production medium leads to the conclusion that the activity of tea spent in ethanol production was slightly high to that of commercial production medium.

**Keywords:** Tea spent, Ethanol, Camellia sinesis, Fermentation, Production media, Saccharomyces cerevisiae

Read Full Paper · Download PDF · Back to index

---

## 96 Automatic vehicle speed control

Paper ID V6I2-1334 · Pages 447-452 · Computer Science Engineering

**Mohammed Shaheen**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Hemanvitha Mylapalli**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Padala Divyasri**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Sriyancy Palakurthi**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**Dr. Esther Sunanda Bandaru**, Assistant professor, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh

Internet of things technology enables all the physical devices to be connected through the network and exchange data among themselves over the internet. Road accidents are the most dangerous things to happen to a road user especially due to over-speeding. One of the possible ways of controlling speed to prevent accidents is by applying the applications of IoT. The objective of Automatic Vehicle Speed Control is to develop a system that automatically controls the speed of the vehicles at specific areas such as school zones, hospital zones, speed limited areas, etc. Encoders are mounted at the zones which continually transmit codes that are different in different zones. When the vehicle reaches the zone, the decoder present in the vehicle decodes the data transmitted by the encoder and sends the decoded data to the programmed micro-controller which in turn

© 2020, IJARIIT.COM All Rights Reserved

is responsible for decreasing the speed of the vehicle and keeping vehicle speed constant until it moves out of the zone. Later on, the vehicle can regain its original speed. Apart from speed detection this system also has an inbuilt object detector unit (with 555 IC, TSOP 1738, IR) i.e the vehicle comes to halt when it detects any object in front. Thereby avoiding most of the accidents. Automatic Vehicle Speed Control also consists of a unit (with LDR) that automatically illuminates the street lights in the absence of light.

**Keywords:** Internet of Things, Automatic Speed Control, Specific Areas, Encoders, Decoders, Programmed Micro-Controller, Object Detection

Read Full Paper · Download PDF · Back to index

---

## 97 Offline examination system using Raspberry Pi

Paper ID V6I2-1340 · Pages 453-455 · Embeddded Linux

**Nikhil Thakur**, Student, G. H. Raisoni College of Engineering and Management, Pune, Maharashtra
**Sougandh Shah**, Student, G. H. Raisoni College of Engineering and Management, Pune, Maharashtra
**Suraj Yeole**, Student, G. H. Raisoni College of Engineering and Management, Pune, Maharashtra
**Shivraj Deshmukh**, Student, G. H. Raisoni College of Engineering and Management, Pune, Maharashtra
**Sunita Nandgave**, Assistant Professor, G. H. Raisoni College of Engineering and Management, Pune, Maharashtra

India is developing, cities are advancing, but still, the villages and remote areas are facing problems. We are still dealing with major challenges pertaining to digital sectors. Even though the internet, penetration has evolved in India, we are still facing continuous network availability issues other discrepancies. This is significantly a high alarming factor for the education sector. To solve this problem, we have come up with a unique robust solution. So we have developed a Linux based operating system for embedded devices. The operating system is strict as per user requirement for the particular application here it for offline online examination where we break the network into convenient units to overcome the mentioned drawbacks. This mechanism ensures offline conductance of exams in the intranet environment. Further, this will be re-integrated into the consequent network.

**Keywords:** Embedded Devices, Operating System, Linux

Read Full Paper · Download PDF · Back to index

---

## 98 The use of a self-developed board game as a tool to enhance the mastery of vocabulary on action verbs

Paper ID V6I2-1323 · Pages 456-459 · Education

**Faiqah Yasin**, Student, National University of Malaysia (Universiti Kebangsaan Malaysia), Kuala Lumpur, Malaysia
**Harwati Hashim**, Lecturer, National University of Malaysia (Universiti Kebangsaan Malaysia), Kuala Lumpur, Malaysia

This action research focuses on enhancing the pupils' mastery of vocabulary on action verbs. The research participants of this study were four Year 5 pupils. In this research, The Kemmis and McTaggart model were used as a research design. The 'V-Goldenur' game which is an adaptation of the famous 'Monopoly' game was used as an intervention in this research in enhancing pupils' vocabulary on action verbs. 'V-Goldenur' game was carried out in five sessions which each session focusing on five action verbs. The findings of the research

© 2020, IJARIIT.COM All Rights Reserved

were analyzed qualitatively using the triangulation method. The instruments used were document analysis, observation checklist and group interview. The participants had been given Exercise 1 and Exercise 2 to compare the improvement in their vocabulary on action verbs before and after the intervention. The research findings showed that there had been an improvement in the participants' vocabulary on action verbs performance after the intervention sessions. Nevertheless, it is recommended if more words could be added in this research to help the participants in the mastery of vocabulary on action verbs.

**Keywords:** Vocabulary, Action verbs, 'V-goldenur' game, Improvement

Read Full Paper · Download PDF · Back to index

---

## 99 Automated seed sowing robot

Paper ID V6I2-1326 · Pages 460-464 · Electronics And Communications Engineering

**Komuravelli Nithish Kumar**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**Dr. R. Balaji**, Associate Professor, B. V. Raju Institute of Technology, Hyderabad, Telangana
**Seelam Raviteja**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**Kapurkar Sakshi**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**Katkuri Akhila**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana

Agriculture is the backbone for India. In agriculture ploughing, seed sowing is one of the major stages. Traditionally the farmer will engage labor for ploughing, seed sowing. Thus, it requires a lot of manpower and time taking process. For ploughing, farmers are using tractors and animals, Tractors will work on fossil fuels, fossil fuels will pollute the environment. Tractors also produce the sound which in turn produce the noise pollution, in the other hand the animals are used for ploughing the land instead of using them for ploughing the land, we can use for various tasks such as for products. Here we proposed the Automated Seed Sowing Robot which helps the farmer in ploughing the field and sowing the seeds and covering the seeds. The proposed Automated Seed Sowing Robot has 2 parts let us consider it as HEAD and TAIL. To the HEAD the blades are attached so that it will plough the land and the UR sensor is attached to detect the obstacles in the way. To the TAIL the seeds container is placed and the seeds are placed in a regular interval and at the haft is used to cover the seed.

**Keywords:** Agriculture, Farmer, Seed, Automated

Read Full Paper · Download PDF · Back to index

---

## 100 Female foeticide perceptions and practices among women in Punjab

Paper ID V6I2-1336 · Pages 465-471 · Social Sciences

**Yadwinder Kaur**, Research Scholar, Centre for Human Rights and Duties, Panjab University, Chandigarh

Female foeticide besides skewed sex ratio and its attendant social evils has grave ethical undertones, especially for medical professionals and our commitment to save lives. Randomly selected 100 women were interviewed using a semi-structured interview schedule to explore the female foeticide perceptions and practices among couples in district Muktsar city and district Shahid Bhagat Singh Nagar of Punjab. Prenatal sex determination among their relatives and neighbors were reported by 80% respondent, though they themselves

© 2020, IJARIIT.COM All Rights Reserved

had never resorted to it. Could this figure influence the proxy rates for community behaviour, perhaps, this needs in-depth exploration. Supporting to this fact, 25.9% of respondents reported of ever been pressurized by their family members to undergo prenatal sex diagnosis of their foetus. Encouragingly 90% of respondents had opined that that repeated prenatal sex diagnosis and abortions are detrimental to the mental and physical health of a woman and are wholly preventable. Stricter laws and honest enforcement of these laws were the commonest suggestions by the respondent to prevent female foeticide in society.

**Keywords:** Female foeticide, Gender, Sex ratio

Read Full Paper · Download PDF · Back to index

---

## 101 Multiple space closure using thermoplastic tray- Create a beautiful smile – One shot away

Paper ID V6I2-1347 · Pages 472-476 · Conservative Dentistry And Endodontics

**Dr. Lipsita Priyadarshini**, Student, Government Dental College and Hospital, Aurangabad, Maharashtra
**Dr. Pradnya V. Bansode**, HOD and Professor, Government Dental College and Hospital, Aurangabad, Maharashtra
**Dr. Seema D. Pathak**, Associate Professor, Government Dental College and Hospital, Aurangabad, Maharashtra
**Dr. Madhuri B. Wavdhane**, Associate Professor, Government Dental College and Hospital, Aurangabad, Maharashtra

To smile is easy to gift others a beautiful smile it’s a blessing. An important aspect of a beautiful smile is a dentition with no spaces. A diastema can be defined as space >0.5mm between the proximal surfaces of two adjacent teeth. Midline diastemata (or diastemas) occur in approximately 98% of 6 years old’s (maxillary growth and ugly duckling stage), 49% of 11 years old’s and 7% of 12– 18-year-old’s4. But mostly after the late transitional period, it regresses on its own. The continuing presence of a diastema between the maxillary central incisors in adults often is considered unesthetic or malocclusion problems. A multitude of techniques have been employed to improve the smile by closing Diastema. Orthodontic treatment is a good choice for space closure and alignment correction, but the duration of the treatment and the multiple visits often appears hectic. And let's not forget about the expenses in ortho treatment. On the other hand, recent studies also showed that direct composite resin restorations are considered functional, stable, aesthetical, and cheaper restorations completed in less chair time by using appropriate techniques for patients with appropriate occlusion. Closure of midline diastema using free handed composite restoration is helpful, but this is tedious when there are multiple diastemata. With the emergence of advanced and contemporary techniques, the time required for performing restorative procedures has drastically reduced2. Means like just in ‘ONE SHOT’. This is a case report presenting the closure of multiple diastemata using a thermoplastic bleaching tray that would make the closure of multiple spaces in the anterior region easier and esthetic.

**Keywords:** Aesthetic, Thermoplastic tray, Composite, Diastema

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 102 Automated Pneumatic Fixture

Paper ID V6I2-1349 · Pages 477-479 · Mechanical Engineering

**Ninad Male**, Student, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra
**Prerit Shah**, Student, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra
**Tanveet Marucha**, Student, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra
**Parth Mullaji**, Student, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra

As the modern industries are shifting towards the automation, most of the industrial production is held by the aid of robots and in such boom of modernization the main problem that was face by the industries is to held work piece and proper position during machining work. In this project we have designed an automated pneumatic fixture for assembling a certain product, and an electro-pneumatic system to control its operation. It helps in location of work piece during a machining operation. The Clamping system main objective is to achieve higher production rates. Fast, convenient and easy to place and remove the object becomes easier.

**Keywords:** Automated Fixture, Pneumatic Fixture, Clamping System, Bottle Clamping

Read Full Paper · Download PDF · Back to index

---

## 103 A survey on satellite image classification approaches

Paper ID V6I2-1314 · Pages 480-483 · Image Processing

**Saurabh Srivastava**, Research Scholar, Integral University, Lucknow, Uttar Pradesh

Satellite image classification is based on description, texture, or similarity of items or things. Satellite Image classification is a challenging task for machines. Satellite image classification is possible using characteristics, training sample, an assumption of the parameter on data, the pixel, the number of outputs for each spatial elements, spatial information, and multiple classifier approach. These approaches are summarized in this paper but the main objective of this paper to explore classification based on training sample, classification based on the training sample considers two approaches: supervised image classification and unsupervised classification.

**Keywords:** SVM, ANN, Decision tree, Parallelepiped classifier, Minimum distance classifier, Maximum likelihood classifier

Read Full Paper · Download PDF · Back to index

---

## 104 Colorization of black and white images using generative adversarial networks

Paper ID V6I2-1345 · Pages 484-487 · I. T.

**Ranjit Mahadik**, Student, Vidyalankar Institute of Technology, Mumbai, Maharashtra
**Rashi Ryapak**, Student, Vidyalankar Institute of Technology, Mumbai, Maharashtra
**Yash Panchal**, Student, Vidyalankar Institute of Technology, Mumbai, Maharashtra
**Ankita Korde**, Student, Vidyalankar Institute of Technology, Mumbai, Maharashtra

We present a generative adversarial network-based system that faithfully colorizes black and white images without human intervention. Recent methods for such problems typically use per-pixel loss between the output and ground-truth images and the images generated using such loss lacks details. where as in "Perceptual losses for real-time style transfer and super- resolution" [2] paper suggests the use of the perceptual loss

© 2020, IJARIIT.COM All Rights Reserved

function that generates high-quality images. We combine the benefits of both approaches. we have replaced pixel-loss function with perceptual loss function which gives visually pleasing results and used discriminative learning technique where we train first half of generator with lower learning rate as we are using pre-trained model and last half with higher learning rate which reduces the training time of generator. It's easier and faster to train a large number of samples of smaller images initially and then scale up the network by improving images to 220px by 220px from 64px by 64px. This is called progressive resizing [6]. it also helps the model to generalize better as is sees many more images of different shapes and less likely to be overfitting.

**Keywords:** Generative Adversarial Networks, Transfer Learning, Progressive Resizing, Overfitting, Perceptual Loss Function

Read Full Paper · Download PDF · Back to index

---

## 105 Coronavirus: Family, how does it affect the body along with symptoms and treatment

Paper ID V6I2-1350 · Pages 488-489 · Medical Microbiology

**Pullabhatla Sai Krishna**, Student, Dr. V. S. Krishna Government Degree and PG College, Visakhapatnam, Andhra Pradesh

Coronavirus is a SARS(Severe acute respiratory syndrome) like a virus in which this review article states how coronavirus affects the human body and mechanism of how it will enter the host cell. Knowing the mechanism of infection it is possible for a scientist to find an antidote within less span of time, not wasting on other processes. Coronavirus is Initially originated in China, Wuhan city and has become pandemic with 4,68,644 people's got infected and death troll of about 21,191. India along counts about 614 cases and 9 deaths still now with Kerala standing in highest infectants followed by Maharashtra. Presently several hot spots were created for carrying research on the virus. I hope that this article will create a foundation for discovering new vaccines and making the most possible way to cure the disease.

**Keywords:** Caronavirus, Angiotensin converting enzyme 2(ACE 2),Spike protein (S), Lung cells

Read Full Paper · Download PDF · Back to index

---

## 106 Coronavirus Pandemic 2019-2020

Paper ID V6I2-1353 · Pages 490-493 · General Information Or Health Care Information

**Aradhana Kumari**, Research Scholar, Independent Researcher

The emergence of a unique coronavirus (2019-nCoV) has awakened the echoes of SARS-CoV from nearly two decades ago. A pandemic of 2019 novel coronavirus diseases (COVID-19) in Wuhan, China has spread quickly nationwide. Wuhan had reported the results of a descriptive, exploratory analysis of all coronavirus cases diagnosed as on February 11, 2020, worldwide. All COVID-19 case reported on February 11, 2020, were extracted from China's Infectious disorder information gadget. Analyses covered:1) summary of affected person characteristics; 2) examination of age distributions and sex ratios; 3) calculation of case fatality and mortality fees; 4) geo-temporal analysis of viral spread; 5) epidemiological curve production, and 6) subgroup analysis. Over the past few decades of diseases, outbreaks have become increasingly frequent and widespread. The epicenters of these outbreaks have differed and could be linked to different economic contexts. Records had

© 2020, IJARIIT.COM All Rights Reserved

been received with standardized facts series bureaucracy shared with the aid of WHO and the worldwide excessive Acute respiratory and emerging contamination Consortium from electronic medical data. Researchers additionally immediately communicated with sufferers or their families to envision epidemiological and symptom records. This study basically defined on secondary data research as per WHO, China Research Article and Sciencedirectassets Site.

**Keywords:** Covid19, Coronavirus, Infections, Dieses, Pandemic2020, Healthcare, Viruses, worldwide economic crises, SARS-CoV, MERS-CoV, Emergency Virus

Read Full Paper · Download PDF · Back to index

---

## 107 Irrational Numbers in the Physical Universe, and its effects on length, time and mass: Introduction to Physical Irrational Numbers

Paper ID V6I2-1352 · Pages 494-497 · Mathematical Physics

**Rajat Saxena**, The Orbis School, Pune, Maharashtra

If we want to extend the length of a body (without stretching it), what can we do? We can simply add an element of desired length and extend that body. Keeping this in mind that to extend the length of the body we can add elements. Now, let's take a body of length pi, which is 3.1415 m (first 4 places). Now let's write this distance as sum of elements: 3 m + 0.1 m + 0.04 m + 0.001 m + 0.0005 m . . So as we go ahead the decimal places, we can see that the length of the elements which we are adding are getting smaller and smaller, and as we know in our physical universe, the smallest particle to exist is a quark, hence it will be our smallest element which we can add. And as there are no particles beyond quark hence the number will end at moment the diameter of a quark is reached, as the diameter of a quark is 10 ^(-18) m, hence all irrational numbers will terminate at the eighteenth place. This is true only for the bodies in the physical world. These numbers behave like constants or rational numbers, but they are fundamentally irrational. Similarly we will find the termination of irrational numbers when they represent mass and time.

**Keywords:** Pi, Irrational Numbers, Quark, Physical Universe, termination

Read Full Paper · Download PDF · Back to index

---

## 108 Design and fabrication of oil-revamp system using solar power

Paper ID V6I2-1356 · Pages 498-502 · Automobile Sector

**Jagruti Yogesh Devare**, Student, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra
**Bhavika Shantaram Akhade**, Student, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra
**Shweta Gangaram Damre**, Student, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra
**Nikhil V. S.**, Professor, Rajiv Gandhi Institute of Technology, Mumbai, Maharashtra

A Physical method using solar-powered is applied to revamp the used engine oil by the process of sedimentation in addition to the filtration process through the micron oil filter combined with different filtration processes and finally by heating the oil to the 40℃temperature to evaporate all the water contents. The friction between rubbing parts is one of the important factors in contamination of oil due to contamination barium and sulphure content is increased if that oil is used in the engine then there is an increase in carbon, ash, soot

© 2020, IJARIIT.COM All Rights Reserved

content in oil which are highly toxic &cause pollution to the summit if not filtered also the dumping of used oil into the soil can lead to degradation & barren of land & if the same oil leads to waterways via drainage the one gallon of waste oil is capable of polluting 10 million gallon water also revamping aids benefit to the consumer by being able to use that same oil, hence adds benefits to consumer by being able to use that same oil hence adds benefits to both nature & consumers.

**Keywords:** Sedimentation, Micro Filtration, Evaporative Heating, Revamping

Read Full Paper · Download PDF · Back to index

---

## 109 Prediction of Parkinson disease by methods using Machine learning approach

Paper ID V6I2-1363 · Pages 503-505 · Information Technology

**Chitra S.**, Student, Rajalakshmi Engineering College, Chennai, Tamil Nadu
**Manisha R.**, Student, Rajalakshmi Engineering College, Chennai, Tamil Nadu
**Gayathri K.**, Student, Rajalakshmi Engineering College, Chennai, Tamil Nadu

Parkinson’s disease is the neurodegenerative disorder by which more than 10 million people are affected. The dropping of dopamine levels leads to Parkinson’s disease. For diagnosing Parkinson’s disease there are no medical tests are available. The doctors cannot detect the disease through any medical tests like a blood test or scan reports. To prevent this problem in medical sectors, have to predict the problem in a simplified way. The dataset is analyzed by a Supervised machine learning approach to identify various information. The data pre-processing techniques like data cleaning, data validation are done in the collected dataset to avoid noise and missing values. Data visualization is used to visualize the given dataset in different formats like graphs, charts, etc. Symptoms like speech and tremors are used to identify the disease through a machine learning approach. With the best accuracy, Precision, Recall, and Sensitivity, the Graphical User Interface (GUI) is used to show the predicted result.

**Keywords:** Dataset, Machine Learning-classification method, Python

Read Full Paper · Download PDF · Back to index

---

## 110 IoT based automatic irrigation system on greenhouse

Paper ID V6I2-1362 · Pages 506-509 · Electronics And Communication Engineering

**Darniss**, Student, Rajalakshmi Institute of Technology, Chennai, Tamil Nadu
**Asha S.**, Student, Rajalakshmi Institute of Technology, Chennai, Tamil Nadu
**Gowtham S.**, Student, Rajalakshmi Institute of Technology, Chennai, Tamil Nadu
**Vanathi A.**, Assistant Professer, Rajalakshmi Institute of Technology, Chennai, Tamil Nadu
**Rahul Krishnan**, Assistant Professer, Rajalakshmi Institute of Technology, Chennai, Tamil Nadu

This project is to provide an automatic irrigation system thereby saving time, money & power of the farmer. The traditional farm-land irrigation techniques require manual intervention. With the automated technology of irrigation, human intervention can be minimized. Here a framework is proposed to screen crop-field utilizing sensors for soil dampness, stickiness, and temperature. By observing these parameters our irrigation system

© 2020, IJARIIT.COM All Rights Reserved

can be mechanized if soil dampness is low. We also have notification of field status via E-mail or SMS. In drip Irrigation water drop by drop at the position of the roots. It is the best technology for watering fruit plants, gardens and trees. Water flows through the main pipe and divided into sub pipes. Specially prepared nozzles are attached to these sub pipes. In this system waste of water is very less and no worker needs for irrigating. Our system knows the status of the farm field then ON/OFF the gate valve according to the moisture level in the field

**Keywords:** Internet of things (IoT), Automatic irrigation system, Drip irrigation, Sensors

Read Full Paper · Download PDF · Back to index

---

## 111 Tracking of ambulance in rural areas in emergency situations using GPS and GSM

Paper ID V6I2-1351 · Pages 510-512 · Electronics And Computer Engineering

**Kari Yamini Priyamvadha**, Student, K L University, Guntur, Andhra Pradesh
**Shaikh Shakeela**, Assistant Professor, K L University, Guntur, Andhra Pradesh
**Pabbisetty Girish Sai**, Student, K L University, Guntur, Andhra Pradesh

This program accomplishes two major purposes. The first task is to track the patient carrying ambulance and then the second purpose is to relay the small print of patient information to the hospital or doctor using a GSM device. Using this project, we will figure out where the ambulance is placed and at the approximate time of arrival of a patient. An SMS containing the location and approximate arrival time values is sent to every designated person in the hospital to a Doctor's cell phone. This knowledge will then be used to intimate Doctors about the location of an ambulance and the time of arrival. Using these guidelines, the doctor will do all the arrangements required for patient care. This uses IOT monitoring technology to view position. Upon getting SMS hospital, its personnel will brace for the proper diagnosis and procedures of the patient to come.

**Keywords:** Micro-controller, GPS Modem, GSM Modem

Read Full Paper · Download PDF · Back to index

---

## 112 Automatic toll tax collection system using RFID

Paper ID V6I2-1373 · Pages 513-517 · Computer Science And Engineering

**Shivam Singh**, Student, IMS Engineering College, Ghaziabad, Uttar Pradesh
**Shashank Shukla**, Student, IMS Engineering College, Ghaziabad, Uttar Pradesh
**Sangam Kumar Mishra**, Student, IMS Engineering College, Ghaziabad, Uttar Pradesh
**Vishal Kumar Singh**, Student, IMS Engineering College, Ghaziabad, Uttar Pradesh

ATTCS is an Automatic Toll Tax Collection System. In this paper, the evaluation of the performance of the Automatic Toll Tax Collection System Using RFID is being carried out using JAVA Technology implemented on Net Beans IDE 8.0 and My SQL Database. The automatic toll tax collection system also carries its Wampserver Connection and mailing SMTP protocol. The automatic toll tax collection system is used for collecting the toll tax automatically that helps in reducing the heavy congestions and avoiding traffics caused in the metropolitan cities toll plaza. For this, we provide a particular RFID tag for each vehicle whether a person buys a new vehicle

© 2020, IJARIIT.COM All Rights Reserved

or have a there existing vehicle. The particular RFID tag has its own unique identification number assigned which stores various information in there database server like username, password, address, email, mobile number, vehicle number and prepaid account. Whenever the vehicle has to pass the toll plaza then it must have their particular RFID tag that has been assigned for that particular vehicle in which RFID Reader reads and verifies the vehicle information and then deducts the tax amount from their prepaid account balance. If any of the processes fails that vehicle is trapped and now that particular vehicle is being verified manually and then passed through the manual toll gate. This system helps in saving time, money and fuel conservation as well as helps in trapping the unauthorized illegal vehicles.

**Keywords:** ATTCS, RFID tag, RFID reader, Server motor, Prepaid account balance.

Read Full Paper · Download PDF · Back to index

---

## 113 Production of bio fuel from used cooking oil

Paper ID V6I2-1378 · Pages 518-520 · Chemical Engineering

**Nandhini M.**, Student, Kalasalingam Academy of Research and Education, Madurai, Tamil Nadu
**Deva Dharshini S.**, Student, Kalasalingam Academy of Research and Education, Madurai, Tamil Nadu
**Kanimozhi R.**, Assistant Professor, Kalasalingam Academy of Research and Education, Madurai, Tamil Nadu

Biodiesels are very good alternatives to diesel oils as they have similar properties. It is one of the best substitutes for the fuels and it has acquired significance due to the shortness of conventional fuels. These biodiesels can also be produced from waste cooking oil by transesterification process. These waste cooking oils are better options for conventional fossil fuels. Also, biodiesel can be produced from animal fats and vegetable oils but it may compete for the food supply. Waste cooking oils are considered to be a substantial feedstock.

**Keywords:** Biodiesel, Waste cooking oil, Transesterification, Vegetable oils

Read Full Paper · Download PDF · Back to index

---

## 114 Multiple clustering solutions using FK-means Algorithm

Paper ID V6I2-1389 · Pages 521-526 · Computer Science

**Ahmed I. Taloba**, Assistant Professor, Al Jouf University, Sakakah, Saudi Arabia
**Rasha M. Abd ElAziz**, Assistant Professor, Al Jouf University, Sakakah, Saudi Arabia

Most of the clustering algorithms try to find a single efficient clustering solution. However, data can be grouped and interpreted in many different ways. Moreover, different efficient clustering solutions are interesting for different views. This is particularly true in the high dimensional, where different views reveal different possible groupings of the data. In this paper, we apply multivariate mutual information to find multiple views for the data by grouping features. Then we apply the Fast K-means (FK-means) algorithm to these different views to find multiple clustering solutions. Our experiments on synthetic and real data show that our method can discover multiple views of the data that correspond to different solutions

**Keywords:** Clustering, K-means algorithm, Bee algorithm, GA algorithm, FBK-means algorithm

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 115 Recommendation system of course selection

Paper ID V6I2-1359 · Pages 527-531 · Information Technology

**Saurabh Jayakumar Gandhi**, Research Scholar, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Nikita Bhamare**, Research Scholar, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Yugandhara Jadhav**, Research Scholar, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Swati Patil**, Assistant Professor, Vishwakarma Institute of Information Technology, Pune, Maharashtra

This module is a program for recommending various courses on the basis of academic results and student selection. Students choose specific courses of study because of their interests and possible future development upon graduation. It is a unique approach to student counseling that proposes different approaches to learners and resources, processing natural languages, indicators for developing skills and knowledge. It collects course information and commends them according to their students' preferences, interests and needs. Choosing the wrong subjects means the discrepancy between the student's understanding, power, and personal interest. Problems arise when a student is not interested in the course that is not well-matched with the student's ability. In this module, the system assesses the power of psychometric tests and is based on their previous learning outcomes. Incorporating all aspects, speaking and deciding which lessons should be recommended by learners. So it's nice to have some kind of smart complementary tools that need to be made to help them.

**Keywords:** Recommendation system, Course selection, Psychometric test, Academic results, Market trends

Read Full Paper · Download PDF · Back to index

---

## 116 A survey on operating systems, LFS and BLFS

Paper ID V6I2-1386 · Pages 532-535 · Computer Engineering

**Kohinoor Chatterjee**, Student, Vishwakarma Institute of Technology, Pune, Maharashtra
**Prafull Lad**, Student, Vishwakarma Institute of Technology, Pune, Maharashtra
**Kartik Kapgate**, Student, Vishwakarma Institute of Technology, Pune, Maharashtra
**Isha Bansod**, Student, Vishwakarma Institute of Technology, Pune, Maharashtra
**Pravin Khandare**, Guide, Vishwakarma Institute of Technology, Pune, Maharashtra

Recently, government organizations, specialists have been attracted to the movement of open-source software and on top of them, the Linux open-source and free operating system has caught the most attention. So much so that in this movement even the biggest companies like Google, Oracle have stepped forward and are developing open-source software, particularly Linux. This paper states the stepwise development of a Linux based operating system with the Linux from Scratch (LFS) method. First, we take a look at different operating systems, and the need to develop another Linux-based system. The advantages and disadvantages of these operating systems are presented. And further, we analyze a step by step method from “scratch” to a complete Linux-based operating system.

**Keywords:** Linux, LFS, BLFS

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 117 Precision farming using embedded systems and machine learning

Paper ID V6I2-1397 · Pages 536-538 · Computer Science

**Smit Master**, Student, Vidyavardhini College of Engineering and Technology, Mumbai, Maharashtra
**Sachin Kundar**, Student, Vidyavardhini College of Engineering and Technology, Mumbai, Maharashtra
**Rahul Gandhi**, Student, Vidyavardhini College of Engineering and Technology, Mumbai, Maharashtra

Agriculture plays one of the major roles in the occupation of India and machine learning is a growing field in agricultural analysis. Choosing a particular crop is an extremely important issue during agriculture. Any farmer is curious about getting the recommendation of the crop he should grow. The common problem existing among Indian farmers is they don't choose right crop supported their soil requirements. Because of this they face big set back in productivity and leads to a loss in income. Also monitoring weather is a crucial part of precision agriculture. A farmer cant fight with the weather. However, he can accept the given situation and take additional farm management practices to attenuate crop losses and take precautions beforehand. Therefore accurate information regarding weather is vital in order that farm activities are often planned without adverse events. Being conscious of real-time weather is best thanks to protecting crops and a secure high and healthy yield. In this paper, this problem is solved by proposing a crop recommendation system using a Machine learning algorithm and getting real-time data of weather using wireless sensors in one system will be really beneficial for the farmers.

**Keywords:** Agriculture, Crop recommendation, Machine learning, Wireless sensors, Real-time meteorology, Embedded systems

Read Full Paper · Download PDF · Back to index

---

## 118 Home Automation with voice control

Paper ID V6I2-1361 · Pages 539-541 · Electronics And Communication Engineering

**S. Saravanakumar**, National Engineering College, Kovilpatti, Tamil Nadu
**G. Vijay**, National Engineering College, Kovilpatti, Tamil Nadu
**C. Piramuthu Raja**, National Engineering College, Kovilpatti, Tamil Nadu
**T. S. Arun Samuel**, National Engineering College, Kovilpatti, Tamil Nadu

The Internet of Things (IoT) is a WorldWide network of smart objects. A smart home solution that allows users to specify and centrally control the Internet of Things smart objects. It also provides a user interface to graphically illustrate the data received from smart objects. A typical smart home is composed of several SOs that communicate with a central application. Basic aim is to control or monitor signals from different appliances, or basic services. To make devices to be user friendly, rather than searching for electronic deviceto give commands.

**Keywords:** Relay, NodeMCU, Adafruit

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 119 Automatic Saline Re-filler for COVID-19 patients using IoT

Paper ID V6I2-1399 · Pages 542-543 · Bio Medical Engineering

**Peddinti Jagannadha Deekshith**, Design Engineer, Independent Researcher
**Kakarlamudi Lakshmi Maidhili**, Independent Researcher, Independent Researcher

This work majorly concentrates on how automatic refilling of saline is done to the COVID 19 patients in the Intensive care Unit (ICU) or in the Critical Isolation ward so that continuous contact for the doctors with the positive patients can be minimized. In addition to this patient's BP, Heart rate can be monitored from outside of critical wards.

**Keywords:** Saline, IoT

Read Full Paper · Download PDF · Back to index

---

## 120 An attempt of best scheduling approach for a construction project

Paper ID V6I2-1400 · Pages 544-547 · Civil Engineering

**Sandeep Manohar Joshi**, Student, JSPM's Imperial College of Engineering and Research, Pune, Maharashtra
**Dr.Navnath V Khadake**, HOD, JSPM's Imperial College of Engineering and Research, Pune, Maharashtra

The current study is an attempt made to decide the best scheduling approach to a construction project in order to deliver it on time, quality and cost. The major constraints typically observed in any construction project are time overruns, cost overruns. It is, therefore, necessary for a project manager to attempt the best scheduling approach based on the study of project ideals and project constraints. A Project ideal is a measure of success. Common project ideals identified are Highest client satisfaction, Highest quality for deliverables, shortest time possible and lowest cost possible. The typical project constraints are Knowledge, Time, cost, resource and risk constraints. After having a project PIC analysis, the best scheduling approach is decided like an Agile approach when knowledge is a constraint or when the ideal is the highest client satisfaction, Critical path method when time is dominant and time is ideal, Resource Critical Path ( RCP) approach in any resource-constrained project. A logical sequence of activities with assigned duration and resources is made and the schedule is prepared. The critical path method is the approach used widely in a construction project. Critical path and critical activities are studied in advance with the use of MSP 2016 or any other computer software and critically monitored so that these activities are completed on time and there should not be any delay in completing these activities.

**Keywords:** Schedule approach, Project ideals and constraints, Critical path method, Agile project management

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 121 A three-layer privacy scheme for storing data using fog computing along with cloud computing

Paper ID V6I2-1410 · Pages 548-551 · Computer Science Engineering

**M. Sai Poojitha**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**P. Jyothsna Vani**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**K. Yaseswini**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh
**L. Tejaswini**, Student, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh

Nowadays, we often listen to the word of cloud computing. In our technological world, we care a lot about our privacy, so we use cloud computing to achieve it. For the time being, there are many people who are interested in others life and are always try to get other data. Recently, We came to know that this cloud computing storage system also been crashed. In order to decrease the risk of losing data, we introduced a new technology called Fog computing. In this new storage system, we have used a theory of the Hash-Solomon code of algorithm which helps in dividing data into three parts. And fog computing we use is to store the three parts of data into cloud, fog and in secondary storage or main memory of the device/system. The composition of data that divided into is 95%, 4%, and 1% respectively. As it is dived into three parts it'll be difficult for the hacker to crash into fog server and get the data stored in it. We all know about cloud storage is secured externally whereas fog server is secured both in and out of it. That means fog storage system is secured both internally and externally. Here Hash-Solomon ensures the data to be encoded first before dividing the data and even encodes each part after the division of data. For retrieving this data when the owner needed then it is decoded by Hash-Solomon itself, if we use another algorithm it will only do encode or decode but not both. So, we use this algorithm for flexibility, compatibility and also for better efficiency. So, we can say that this increases privacy protection.

**Keywords:** Cloud computing, Fog computing, cloud storage, fog server, privacy protection, Hash-Solomon algorithm

Read Full Paper · Download PDF · Back to index

---

## 122 A review on: Residual stresses in welding

Paper ID V6I2-1412 · Pages 552-554 · Mechanical Engineering

**Kiran Manohar Thorve**, Assistant Professor, IETES Bharat College of Engineering, Thane, Maharashtra
**Sarvesh Khairnar**, Student, IETES Bharat College of Engineering, Thane, Maharashtra
**Prasad Kevane**, Student, IETES Bharat College of Engineering, Thane, Maharashtra
**Kartik Naik**, Student, IETES Bharat College of Engineering, Thane, Maharashtra
**Kalpesh Marathe**, Student, IETES Bharat College of Engineering, Thane, Maharashtra

Welding is a very popular process of metal joining. This process is carried out with the application of high heat; this rapid heating and cooling cause residual stress in the welding region which also results in metallurgical changes near the weld. This develops the Heat Affected Zones (HAZ). In the weld, stresses exist even when there is no external loading. This paper contains the literature of various techniques used for the study of residual stresses.

**Keywords:** Residual Stresses, Welding

© 2020, IJARIIT.COM All Rights Reserved

Read Full Paper · Download PDF · Back to index

## 123 Web based blood bank management system

Paper ID V6I2-1382 · Pages 555-558 · Computer Science And Engineering

**Vedanti Vishnu Deshpande**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Shubham Kumar**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Supriya Chaple**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra

A blood bank is a bank of blood or blood constituents. “Blood Bank” means the storage of blood and where the blood is tested and preserved. Blood is an unstable product with uncertainties in both supply and demand and bloodstock management is, therefore, a judicious balance between shortage and wastage. The website eases the easy access to the blood of different blood groups as per the need of the particular person. The website also tells us about the bloodstock details, blood Issue details and it is regularly updated by the authorized person in the respective blood banks. Improvement of a blood supply chain is a hard process. To improve this, the web-based blood bank management system is accessible.

**Keywords:** Blood Bank, Blood Group, Blood Bank Management System

Read Full Paper · Download PDF · Back to index

## 124 Study of relation between spread of Covid-19 and Nitrogen dioxide

Paper ID V6I2-1384 · Pages 559-563 · Epidemic And Human Health

**Bhalekar Sidhant Padmakar**, Student, Savitribai Phule Pune University, Pune, Maharashtra
**Bhalekar Padmakar Jaywant**, RTO Inspector, Regional Transport Office, Nanded, Maharashtra

The COVID-19 virus is being spread all over the world and infected citizens of more than 212 territories with corona disease. About 1395136 people are infected by COVID-19 and 81580 total deaths up to now due to coronavirus are recorded according to WHO data. An emergency is being declared and the order of lockdown is given in most of the countries. The level of air pollution mainly nitrogen dioxide (NO2) is lowered drastically. There is a relation between the spread of COVID-19 and nitrogen dioxide and the temperature of various countries that we tried to study in this paper.

**Keywords:** COVID-19, Coronavirus, Nitrogen dioxide, Respiratory track

Read Full Paper · Download PDF · Back to index

## 125 Review on DAQ systems using FPGA

Paper ID V6I2-1392 · Pages 564-565 · Vlsi And Embeded Systems

**Ananya K. Nayaka**, Student, REVA University, Bangalore, Karnataka
**Dr. S. N. Prasad**, Professor, REVA University, Bangalore, Karnataka

This paper presents the review on different implementation of DAQ systems data is a bitcoin for everything gleaned and summary data of any embedded and digital system are further analysand by penetrating algorithms and hence endowing the respective system. In some cases the data will be live

© 2020, IJARIIT.COM All Rights Reserved

superintended,Collected data not only helps in endowing yet it would be used in research Data acquisition system is a crucial l thing in a digital system, in to-days world field's, Orientated on different application and requirement the data has been gleaned by divergent methodologies The paper gives the review about the divergent methodologies in gleaning data in contrary digital systems.

**Keywords:** DAQ, FPGA, Acquisition

Read Full Paper · Download PDF · Back to index

---

## 126 Analysis on the expectations of future multi-modal biometrics fusion

Paper ID V6I2-1396 · Pages 566-571 · Biometric

**Ms. S. Selvarani**, Assistant Professor, Fatima College, Madurai, Tamil Nadu

A biometric classification is basically a prototype detection system that is activated by gaining biometric evidence from a personality, mine the feature set from the attained data, and match up the facet set aligned with the pattern set in the database. This technology is also the science of distinguishing and recognizing the human qualities using e-equipments that channels and analyses the biological statistics. The multimodal biometric structure is becoming more and more popular, they have more accurateness as compared to unimodal biometric systems. These systems are more complex to build but these systems are the future traits. Current obsolete methods such as private-public keys, passwords, and PINs generated are with no trouble stolen and pooled. This paper focuses on the expertise that is used as modes of categorizing an individual based on their distinctive physiological and behavioral qualities to secure our information now and also in the future. Deployed multimodal biometric systems also referred to as multi-biometrics or even as multimodalities are commonly found and used in electronic chips, embedded in travel documents. A noteworthy amount of very topical advances to the appropriate fortification expertise has been available. This paper demonstrates an inclusive indication of a study in multibiometrics, the security of their stencils and the solitude concern that come to pass. State-of-the-art re-examination of the breathing fiction edifying the in-progress proposals are also supplied based on the altered levels of fusion and the employed protection algorithms.

**Keywords:** Biometric evidence, Uni-modal, Multi-modal structure, Privacy issues

Read Full Paper · Download PDF · Back to index

---

## 127 MANET Intrusion Detection System using cross-layer

Paper ID V6I2-1401 · Pages 572-577 · Networking

**G. Parameshwari**, Student, Anna University, Tiruchirappalli, Tamil Nadu

MANET (Mobile Ad-hoc Network) could also be a self-configuring and infrastructure less network that consists of mobile nodes that communicate with each other through wireless links. This paper analyzes the Blackhole attack which is one of the possible attacks in ad-hoc networks. The intruder, once chosen as an intermediate node, drops the packets instead of forwarding or processing them, causing a neighborhood (BH) within the network. The goal is to develop an Intrusion Detection System (IDS) to secure routing in MANET. So on the beat this defect, we propose a cross-layer based IDS techniques. To use cross-layer techniques to detect and isolate malicious node in MANET then updating malicious node information within the routing table. For cross-layer, we

© 2020, IJARIIT.COM All Rights Reserved

use MAC and network layer. The medium access control (MAC) protocol allows mobile nodes to share a typical broadcast channel. The network-layer holds the multi-hop communication paths over the network. This paper gives the corresponding simulation results in NS2. With the help of performance metrics like packet delivery ratio, end-to-end delay, and throughput, it's shown that cross-layering between AODV and Modified DSR. This paper gives the result of AODV is best among the two protocols.

**Keywords:** MANET, Blackhole attack, Cross-layer, IDS, AODV, Modified DSR

Read Full Paper · Download PDF · Back to index

---

## 128 IoE – Smart Classroom

Paper ID V6I2-1405 · Pages 578-580 · Iot

**T. Prathyusha**, Student, School of Information Technology, Jawaharlal Nehru Technological University Hyderabad, Telangana

This paper explains the functionality of a Smart classroom. The room consists of a home gateway and all the IoT devices like a smart window, laptop, camera, door, and fan are connected to it. An RFID reader is integrated into the door. When the student/faculty scans the student id card (RFID Card)/faculty id card the door automatically opens and the student roll number/faculty id number is stored in the server. The laptop is the admin laptop and all the IoT devices in the room can be controlled and monitored like turn on/turn off the fan, open/close the window, turn on/turn off the camera. The door is connected to the laptop which makes the opening and closing easier when a student/faculty forgot to carry the ID cards. There is a smartphone integrated into the network where the Head of the department can monitor the classroom from anywhere. The camera helps to check whether the classes are functioning properly on time.

**Keywords:** IoE, IoT, Smart classroom, RFID, IoT Devices, Smartphone, Cell tower, Internet, ISP, Servers

Read Full Paper · Download PDF · Back to index

---

## 129 Relevant impact of the direct response marketing in the blue ocean marketing strategy governed atmosphere

Paper ID V6I2-1408 · Pages 581-585 · Marketing

**Karan Chauhan**, Business System Analyst, Epsilon, Bengaluru, Karnataka
**Aishwarya Sasikumar**, Business System Analyst, Epsilon, Bengaluru, Karnataka

Marketing is an important tool in today’s competitive environment when multiple brands are coming out with the same products. Direct Response marketing has held an important place in this aggressive market as it creates good relations among the producer and the consumer. It utilizes different communication techniques like SMS, online-feedback, e-mails, telephone, and other mediums. The option of getting an immediate response from the consumer makes it interactive and versatile. The method explores the point of view of the consumers placed in different target groups varying on the basis of economic criteria, geological locations, and requirements. It enables the marketer by providing the advantage of customizing the product or changing the marketing approach for products to the different target customer groups by the pattern of their responses provided on those products. The current market has changed from Brand dependent preferences to

© 2020, IJARIIT.COM All Rights Reserved

competitive offer preferences, in which Direct Response Marketing gives an advantage to the Brands for their products. The evidence of the success of Direct Response Marketing can be witnessed by the technology industry giants like Google, who has been using email and another medium as their medium of communication with customers for direct response marketing. In their marketing module, Brand marketing wouldn't have been as successful as Direct Response Marketing [1]. This paper has two parts to it, the first part being the proper understanding of the importance of Direct Response marketing in the current atmosphere. The other aspect of the paper is the proper use of the tool in the Blue Ocean Marketing Strategies being applied in the aggressive market environment.

**Keywords:** Direct Response Marketing, Blue Ocean, Email, Consumer, Campaign, Channels and Marketing

Read Full Paper · Download PDF · Back to index

---

## 130 Invisible facial flushing in COVID-19 patient rapidly detected by smartphone application: Subclinical discovery with a novel method

Paper ID V6I2-1416 · Pages 586-589 · Medicine And Medical Imaging

**Manote Arpornsuwan**, Doctrate Degree Holder, Independent Researcher
**Matinun Arpornsuwan**, Medical Physician, Independent Researcher

No studies of COVID-19 patients mentioned that facial flushing was a clinical feature that could be found. The invisible facial flushing in COVID-19 patient, unrecognized clinical sign with the naked eye could be detected by the smartphone application and probably was the most common clinical features of Coronavirus disease 2019 as seen in dengue infection and influenza. We discovered the innovative method which can detect invisible facial flushing in dengue infection and influenza by using image enhancement with decorrelation combined image segmentation with K-means clustering. We expect to be able to apply to the COVID-19 patient too, because the clinical signs and symptoms, including the immunopathogenesis of dengue infection and influenza, are similar to COVID-19. This is the first case of the COVID-19 patient with the appearance of invisible facial flushing detected by the smartphone application. The innovative application may be useful as a rapid screening tool for the diagnosis of COVID-19 patients in the future. This novel screening tool for diagnosis of COVID-19 patients will help all medical service providers the effective screening tool for the recognition and early diagnosis before performing CT scans and real-time RT PCR (RRT-PCR) assays, especially in some health care facilities where could not be performed due to lack of laboratory support. Furthermore, application in active case finding for COVID-19, the key actions to stop transmission is challenging in countries with community transmission.

**Keywords:** Facial flushing, COVID-19, Image enhancement, Image segmentation, Smartphone application, Rock art enhancer app

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 131 Effect of structured teaching program on knowledge regarding cardiopulmonary resuscitation among degree students

Paper ID V6I2-1419 · Pages 590-593 · Nursing

**Shahana P. P.**, Student, Al Shifa College of Nursing, Malappuram, Kerala
**Seelia Peter A.**, Associate Professor, Al Shifa College of Nursing, Malappuram, Kerala

The present study entitled “Effect of Structured Teaching Program on Knowledge regarding Cardiopulmonary Resuscitation among Degree students” is based on following Objectives: Assess the pre-test and post-test level of knowledge regarding Cardiopulmonary Resuscitation among degree students; Evaluate the effect of Structured Teaching Program on Knowledge regarding Cardiopulmonary Resuscitation among degree students; Find out the association between the pre-test level of knowledge and selected demographic variables. Methodology: The quantitative approach was used for the study and Pre experimental one group Pre-test Post-test design was selected. This study was based on J W Kenny’s Open System theory. The present study was conducted at MES KVM College, Valancherry among 100-degree students. The samples were selected by using a nonprobability convenient sampling technique. Data were collected by using structured knowledge questionnaire to assess the knowledge regarding CPR. Structured Teaching Program was given on the same day and after 7th day the post-test was done, Analysis: Data were analyzed by using descriptive and inferential statistics. Results: The mean post-test knowledge score 21.57 was significantly higher than pre-test knowledge score 12.56. The obtained t value was 27.445 and the p-value was 0.0001. The findings showed that the Structured Teaching Program on CPR was effective. There was a significant association between the pre-test knowledge score with their course of study. The study concluded that a structured teaching program was effective in improving the knowledge of degree students.

**Keywords:** Effect, Structured teaching program, Cardiopulmonary resuscitation, Degree students

Read Full Paper · Download PDF · Back to index

---

## 132 Energy audit: Case study of an Institute

Paper ID V6I2-1425 · Pages 594-597 · Electrical Engineering

**Abhishek Patil**, Student, Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra
**Devesh Koli**, Student, Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra
**Tanmay Deodhar**, Student, Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra
**Vishal Gaikwad**, Student, Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra
**Asokan Selvaraj**, Professor, Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra

India’s economy is affected immensely by the consumption of energy. Excessive use of fossil fuels for the generation of energy not only increases the emission of greenhouse gases but it also increases the cost of energy. In this project, we highlight that Energy Audit is a continuous process to minimize the losses occurring at the consumer end. By suggesting an alternative energy source, the thesis of this project provides an opportunity to reduce carbon footprints, become energy efficient and in turn support capital investment.

**Keywords:** Energy audit, Energy conservation

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 133 Planning, scheduling and allocation of resource for cost optimization of multi-storeyed structure

Paper ID V6I2-1426 · Pages 598-601 · Construction Management

**Manish Darekar**, Student, Imperial College of Engineering and Research, Pune, Maharashtra
**Dr. Navnath V. Khadake**, HOD, Imperial College of Engineering and Research, Pune, Maharashtra

In every construction project, there are two most important factors to be considered in the planning of project i.e. time and cost. Time deals with speed, quality of work and availability of tools and materials whereas cost deals with optimization and availability of resource. The aim of this project is to complete the project within a given time and a budget, and also to achieve the other objectives. The constraints that are observed in every project is time overrun and cost overrun. As we can say it's a most difficult task for a project managers to practice it, which includes fixed measuring progress, executions as per plan and corrective actions should be taken whenever required. Due to proper planning and scheduling, it gives us a knowledge of proper time and the process of cost mostly remains the same. Basically, cost optimization and allocation of resource directly deals with availability of tools and materials. With a proper sequence of activities with assigned durations and resource, scheduled is prepared. In this project critical path and critical activities are studied with the use of MS-Project 2016, so that activities should be properly observed while execution, so that there will be no delay of time in the project, and also, stay focused on the wastage of materials thus lead to the proper optimization of materials and reduction of cost.

**Keywords:** MS-Project, Planning, Scheduling, Allocation of resource

Read Full Paper · Download PDF · Back to index

---

## 134 Simulation and design of DC-DC boost converter

Paper ID V6I2-1430 · Pages 602-608 · Power Electronics

**Uddala Chinarayudu**, Student, Brahmaiah College of Engineering, Nellore, Andhra Pradesh
**Allam Yadunanda Kumar**, Assistant Professor, Brahmaiah College of Engineering, Nellore, Andhra Pradesh

Within the photovoltaic (PV) power market, the ac PV module has shown significant growth. However, a high voltage gain converter is essential for the module grid connection through the dc-ac inverter. This thesis proposes a converter that uses a floating active switch to split the power on the PV panel when the ac module is closed; this design protects the input and users from electrical hazards. In addition to the limited amount of work and many measurements of the integrated inductor, this converter achieves a high degree of electrical conversion efficiency; the leakage inductor power of the integrated inductor is well used in the load. These features explain the efficiency of the module.

**Keywords:** Photovoltaic, Coupled Inductor, Boost Converter, Safety

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 135 Combating money laundering using artificial intelligence

Paper ID V6I2-1427 · Pages 609-612 · Information Technology

**Nikita M. Patil**, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Shraddha M. Dondekar**, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Chetan V. Rawale**, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Kiran V. Memane**, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Lahu Kamble**, Teacher, Vishwakarma Institute of Information Technology, Pune, Maharashtra

In today's world, money laundering is a major issue, so there is a need to fight against money laundering. "Cleaning stolen money, making the source of money no longer exist, called Money Laundering" Financial transactions are huge so it is a challenging task to detect money laundering. As earlier AMLS ( Anti-Money Laundering Suite) was introduced to detect suspicious activities but it is applicable only on individual transactions not for a credit card transaction and other bank transactions. To Overcome these issues of AMLS we propose a Machine Learning method to identify common attributes and behavior with other bank account transactions and also identify suspicious transactions through credit cards. Detection of Money Laundering transaction from a large volume dataset is difficult, so we reduce the input dataset and then calculating the annual turnover of their credit card transfer set a max value which is to be transferred. Also, find a pair of the transaction with another bank account with common attributes and behavior.

**Keywords:** Money, Money laundering, Criminal activities, Combating money laundering

Read Full Paper · Download PDF · Back to index

---

## 136 Development of Al-Alloy piston coating material for high specific power engine application

Paper ID V6I2-1428 · Pages 613-622 · Automobile

**Vikrant Kate**, Student, Automotive Research Association of India, Pune, Maharashtra

The depletion of conventional fuel sources at a tremendous rate and increasing environmental pollution has motivated extensive research and development in the combustion chamber of the engine. In the present study, multilayer ceramic coating on the piston crown was developed to improve thermal efficiency, combustion and exhaust emission, fuel consumption. Also, ceramic coating on crown withstands the elevated temperature and pressure and provides maximum working efficiency. The property advantages of Alumina and Yttria Stabilized Zirconia in combination were utilized to fabricate the Thermal Barrier Coating (TBC) in this study. The multilayer coating of alumina and zirconia was fabricated using an air plasma spray method. For effective bonding, a Ni-based bond coat was applied on the substrate before TBC topcoat. A research piston similar to the actual piston was used to fabricate TBC coating. Microstructural characterization was carried out to check the coating uniformity using Optical and Scanning Electron Microscope. The defect-free uniform coating was formed with an average thickness of bond coat, alumina and YSZ was about 90 µm, 70 µm, and 180 µm respectively. The performance of the TBC coating on the crown of the research piston was assessed by subjecting to the thermal barrier and thermal shock tests. In the thermal barrier test, a maximum temperature drop of 265 °C was observed at 590 °C. Delamination of the bond coat was observed after 90 cycles. Microstructural analysis was also carried out to study the damage that occurred during thermal exposure. All

© 2020, IJARIIT.COM All Rights Reserved

the observation and the test results of this investigation are reported here.

**Keywords:** Thermal barrier coating, TBC coating material, Yttria stabilized zirconia, Air plasma spray coating, Observation

Read Full Paper · Download PDF · Back to index

---

## 137 Women's participation in Tourism industry: An overview

Paper ID V6I2-1429 · Pages 623-625 · Tourism

**Lakshmi S.**, Associate Professor, Seshadripuram Academy of Business Studies, Bengaluru, Karnataka
**Dr. Padmapriya S.**, Assistant Professor, St. Claret College, Bengaluru, Karnataka

In India, Women are termed as "Aadhi awadi" that means the half population of India but by the data of census the current Sex Ratio of India in 2015 is 943 Females/1000 Males. At the present scenario apart from gender discriminations, women have touched the new heights of success in every sector by their capabilities so Govt. of India has made many efforts of women employment for improve their financial and social status by safe working in every sector as government and private. Since the tourism industry contributes average of the country's GDP was 5.8 % and 8.3 % of total employment (ILO 2009). India is expected to be the second fastest growing (8.8%) nation in the world, over the period 2005-2015, tourism industry is one of the major employer of women, offers various job opportunities for independent income generating activities and seems to be a particularly important sector for women (46 % of the workforce are women) as their percentages of employment in most countries are higher than in the workforce in general (34 - 40 % are women, ILO data). One of the service sectors is 'Tourism', the fast upcoming Service Industry on the economic scenario of the world and women are feeling as the "face" and "Brand image" of the industry. Here by this paper an attempt has been made to discuss the recent trends in tourism sector and to highlight the opportunity to work for women in this sector with special reference to India.

**Keywords:** Aadhi awadi, Sex ratio, Travel and tourism industry, GDP, Brand image

Read Full Paper · Download PDF · Back to index

---

## 138 To build or to partner – Dilemma case study

Paper ID V6I2-1431 · Pages 626-629 · Digital Marketing

**Rammohan Sundaram**, Research Scholar, SP. Jain School of Global Management, Mumbai, Maharashtra
**Dr. A. Seetharaman**, Dean, SP. Jain School of Global Management, Mumbai, Maharashtra
**Dr. Maddulety**, Deputy Director - DBA, SP. Jain School of Global Management, Mumbai, Maharashtra

This is a classic dilemma case that most promising start-ups face, it is always a catch 22 situation on valuation and long term growth as against quick fixes and exit. This is one such case the shows the power of the product in video advertising but is facing issues around scaling leading to a dilemma on what the company should do, whether to build the business or just partner with a larger firm to keep the fire burning.

**Keywords:** Dilemma Case, Digital Marketing, Video Advertising.

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 139 Aesthetic rehabilitation of fluorosis teeth with power bleaching: A case series

Paper ID V6I2-1443 · Pages 630-635 · Conservative Dentistry And Endodontics

**Dr. Laxman Daulat Phad**, Student, Government Dental College and Hospital Aurangabad, Maharashtra
**Dr. Pradnya V. Bansode**, HOD, Government Dental College and Hospital Aurangabad, Maharashtra

“Time is more valuable than money. You can get more money, but you cannot get more time.” Quote by Jim Rohn. In today’s world of immediate gratification, in-office bleaching is one of the most requested procedures in many dental offices, a great way to get a fast and immediate change in the color of their teeth. Material and Methods: Bleaching that is done in the clinic, where immediate results are expected is called Power bleaching. Power bleaching often uses hydrogen peroxide, an activating light or laser, and also requires a rubber dam or tissue dam to be placed to protect the gums. Case series describes the management of fluorotic discoloration combined with surface micro-abrasion & in-office LED light-activated vital bleaching techniques. Conclusion: Effect of power bleaching with high intensity LED devices to provide more intense bleaching for a longer period without risk of pulpal damage, selective heating during bleaching, number sittings were reduced, effective bleaching & desirable result obtained in a short period of time.

**Keywords:** Light-activated Bleaching, Dentin desensitizing agents, Fluorosis, Hydrogen peroxide

Read Full Paper · Download PDF · Back to index

---

## 140 Rule of Law in India- An analysis

Paper ID V6I2-1445 · Pages 636-638 · Constitutional Law

**Anushka Kaul**, Student, Symbiosis Law School, Pune, Maharashtra

The author in this paper not only aims to bring forth the value and meaning of the rule of law but also tries to portray its importance as a tool that limits the abuse of power. The introduction of this paper sets out to give a brief of the meaning of rule of law, it’s the origin and brief analysis of the definition given by A.V. Dicey in his book “The Law of the Constitution (1885)”. The second part of the research paper talks about the two theories of the Rule of Law- The Rule-Book and Rights-Based theories. The analysis basically elucidates upon how the doctrine of Rule of Law has been upheld in almost all judicial decisions in India. Finally, the author concludes with how the need of the hour is to correct its implementation and execution so that law prevails over everyone and everybody.

**Keywords:** Rule of law, India, Rule-book, Rights-based, Constitution

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 141 A handheld and convenient occlusal scanner

Paper ID V6I2-1446 · Pages 639-642 · Biomedical Engineering

**Varun Venkat**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**Gayathri V.**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**John Felix A.**, Student, SRM Institute of Science and Technology, Chennai, Tamil Nadu
**Vinoth Kumar G.**, Assistant Professor, SRM Institute of Science and Technology, Chennai, Tamil Nadu

The idea to determine the alignment of the teeth and jaw placement. This entirely covers the examination of human teeth between the age of neonatal to adolescence where the majority of the teeth issues and problems occur. We know for a fact that humans up to the age of 8 have milk teeth that constantly get replaced so these issues can be diagnosed early and treated accordingly. So this device uses a piezoelectric sensor or pressure gauge to measure the pressure applied while biting. These parameters are analyzed and then fed to a microcontroller where appropriate techniques are adapted to give a detailed analysis and determine the intensity of the issue. This system uses an amalgam of electronics and the medical sector. This is a portable structure that can be implemented in a dentist's workplace.

**Keywords:** Occlusal, Teeth imaging, Digital image processing

Read Full Paper · Download PDF · Back to index

---

## 142 Assurance of pollution using image fusion of differently exposed image using discrete Wavelet Transform

Paper ID V6I2-1450 · Pages 643-648 · Image Processing

**Swastik Das**, Student, Vellore Institute of Technology, Vellore, Tamil Nadu

Image fusion implies the route toward combining the information from no less than two pictures into a single educational picture. The resulting consolidated picture contains a larger amount of information than the data pictures. We endeavored to entwine contrastingly revealed grayscale and shaded pictures using system for Discrete Wavelet Transform and besides two helpful pictures using Discreet Wavelet Transform. The objective of the mix of a picture taken during the day and photo of a same picture taken during the night is to procure a lone picture containing however much information as could be normal about that image for analysis. In this project, a novel DWT-type2 fluffy technique is proposed to intertwine two images (Morning and evening images). In this system, at first, the source pictures are broken down into low-level and strange state sub bunches by discrete wavelet change. As the second step, for fusion, Type-2 fluffy procedure is connected on a low-level sub band and normal fusion strategy is connected on the abnormal state sub groups with a specific end goal to improve the most conspicuous highlights exhibit in both the images captured during the day and night. At long last, the intertwined lowlevel sub band and abnormal state sub groups are reproduced to frame the last combined image utilizing backwards DWT.

**Keywords:** Image fusion, Discrete Wavelet Transform

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 143 Effect of rice husk ash on partial replacement of cement in concrete

Paper ID V6I2-1383 · Pages 649-651 · Civil Engineering

**Ronak Devasia**, Student, Gharda Institute of Technology, Ratnagiri, Maharashtra
**Aniket Auti**, Student, Gharda Institute of Technology, Ratnagiri, Maharashtra
**Prasad Shirgaonkar**, Student, Gharda Institute of Technology, Ratnagiri, Maharashtra
**Ashutosh Surve**, Student, Gharda Institute of Technology, Ratnagiri, Maharashtra

Cement is the most expensive constituents of the concrete. Over 5% of global CO2 emission is attributed to cement production. In this work alternative source for cement as rice husk ash is used. A comparative study is carried on properties of concrete when cement is partially replaced with rice husk ash. Percentage replacement of cement with RHA is varied as from 10%, 15% and 20% with silica fumes kept as constant at 10%. Silica fumes are very reactive pozzolan and are considered having higher durability and strength inhibiting properties which may contribute to attaining the required characteristic properties of concrete. The compressive strength is found at 7 and 28 days. The strength is then compared to standard concrete and the optimum percentage of replacement of RHA is found out.

**Keywords:** Rice husk ash, Compressive test, Partial replacement.

Read Full Paper · Download PDF · Back to index

## 144 Prediction of heart diseases using Machine Learning algorithms

Paper ID V6I2-1453 · Pages 652-655 · Computer Science

**N. Vineeth**, Student, CVR College of Engineering, Hyderabad, Telangana
**V.N.V.L.S. Swathi**, Assistant Professor, CVR College of Engineering, Hyderabad, Telangana
**C. Vishal Sai**, Student, CVR College of Engineering, Hyderabad, Telangana
**V. Vishal**, Student, CVR College of Engineering, Hyderabad, Telangana

Heart-related diseases or cardiovascular diseases are the main reason for huge number of deaths in the world over last few decades in the developed as well as underdeveloped and developing countries. Early detection of cardiac diseases and continuous supervision of clinicians can reduce the mortality rate. However, accurate detection of heart diseases in all cases and consultation of a patient for 24 hours by a doctor is not available since it requires more wisdom, time and expertise. Machine learning techniques help health care professionals in the diagnosis of heart disease. This aims a better understanding and application of machine learning in the medical domain, an automated system in medical diagnosis would enhance medical efficiency and reduce costs. In order to decrease the number of deaths by heart diseases there have to be a quick and efficient detection technique, the use of multiple machine learning algorithms for heart disease, models based on supervised learning algorithms such as: Decision tree, Naïve Bayes, K-Nearest Neighbors, Random Forest, Logistic Regression, and then implement them to predict heart disease based on patients' medical records. Find the accuracy of the models, Choose the best output with the highest accuracy. These machine learning algorithms and techniques have been applied to various medical data sets. The implementation of work is done on heart disease data set from the University of California Irvine (UCI) machine learning repository, it contains several instances and attributes. By using the data set we test on different machine learning techniques and predict the best model which is computationally efficient as well as accurate for the prediction of heart disease.

© 2020, IJARIIT.COM All Rights Reserved

**Keywords:** Heart Disease, Prediction, Machine Learning, Algorithms, Accuracy

Read Full Paper · Download PDF · Back to index

---

## 145 ASIC implementation of smart home using VLSI design

Paper ID V6I2-1455 · Pages 656-660 · Vlsi Design

**Syed Muqtar Nawaz**, Student, B V Raju Institute of Technology, Narsapur, Telangana
**Sureddy Sravya**, Student, B V Raju Institute of Technology, Narsapur, Telangana
**Mohammed Imran**, Student, B V Raju Institute of Technology, Narsapur, Telangana
**C. Ramesh Kumar Reddy**, Assistant Professor, B V Raju Institute of Technology, Narsapur, Telangana

In the upcoming new era, the need for improvement in technology and upgrades of existing devices has more priority. With such idea of upgrading the home automation system we have designed this model. In this model we used six sensors that is, temperature sensor (LM35), PIR motion sensor, smoke detection, water level sensor, garage sensor etc. For different purposes which ultimately leads to two major visions that is, (a) security (b) Comfort. In this model we have developed has highly improvements in both visions, like PIR motion sensor detects unusual intrusion in the home which helps to provide security. Here we used software tools Xilinx 14.4 to develop simulation results for each sensor. RTL schematic diagram is used to represent the pin level diagram. Therefore, to implant more features in home automation system and with high performance at low cost is our ultimate goal.

**Keywords:** Intrusion detection, Temperature and smoke detection, Xilinx, RTL schematic.

Read Full Paper · Download PDF · Back to index

---

## 146 Alternatives to mitigate Corona

Paper ID V6I2-1463 · Pages 661-663 · Bio-medicine

**Manjeet Singh**, Student, Parul University, Vadodara, Gujarat
**Lavina Pratap Bhambhani**, Student, Parul University, Vadodara, Gujarat

Coronavirus is most pandemic virus and it is challenging too for the scholars and scientists to discover its vaccine. Like every organism in nature struggling for survival, they evolve or mutate. Similarly, the coronavirus has changed its genome sequence to adapt to the new species. In fact, research has shown COVID-19 has mutated repeatedly in ways to boost its survival which results in more difficulties to discover its vaccine. We can’t hit the coronavirus directly and neither our immune system is capable enough to fight with it, but by killing the infected cells, we can kill the corona virus too.

**Keywords:** Multiplicity of infection (MOI), P. falciparum, Bilirubin Synthesis, CQ Heme Complex, SARS

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 147 Identification of potent COVID-19 Main Protease (Mpro) inhibitors from Curcumin analogues by Molecular Docking Analysis

Paper ID V6I2-1462 · Pages 664-672 · Molecular Docking Study

**Jaydip Bhaliya**, Research Scholar, ITM Vocational University, Vadodara, Gujarat
**Vraj Shah**, Research scholar, ITM Vocational University, Vadodara, Gujarat

These days, COVID-19, a new strain of coronavirus COVID-19 is rapidly spreading, has affected more than 210 countries and territories received global attention. The lack of efficacious medicines or vaccines in opposition to SARS-CoV-2 has also worsened the situation. Hence, there is a pressing want to increase up research for the improvement of potential therapeutics and low priced diagnostic in opposition to COVID-19. The crystallized form of COVID-19 main protease (Mpro) was illustrated by a Chinese researcher Liu et al. (2020) which is a novel therapeutic drug target. The goal of the study is to identify COVID-19 Mpro potential from mono-carbonyl analogues of curcumin through binding free energy analysis into COVID-19 by utilizing molecular docking. We conducted docking simulation to mono-carbonyl analogues of curcumin as ligands into the main protease of COVID-19 as a protein. The 3D structure of the COVID-19 Mpro was downloaded from PDB (Code ID: 6LU7). The structure of ligands was prepared using Chem Bio Draw Ultra 12.0.02. Docking process, the interaction, and binding of ligands – protein was done using the software Molegro Virtual Docking (MVD) and visualized using the software Molegro Molecular Viewer (MMV). The results showed hydrogen bonding and Steric interaction between compound A2 ( curcumin analogues) with, COVID-19. Moldock scores of compound A2 is -202.476 kcal/mol. It is predicted that compound A2 has potency as a lead compound to find new antiviral candidates against COVID-19 for possible therapeutic agents.

**Keywords:** Coronavirus (Covid-19), Curcumin analogues ,docking, Molegro Virtual Docker

Read Full Paper · Download PDF · Back to index

---

## 148 IoT based smart car parking system

Paper ID V6I2-1466 · Pages 673-677 · Internet Of Things (iot)

**Shravya K. Holla**, Student, BNM Institute of Technology, Bengaluru, Karnataka
**Keerthi S.**, Student, BNM Institute of Technology, Bengaluru, Karnataka
**Vidhya Dhari L.**, Student, KS Institute of Technology, Bengaluru, Karnataka

This paper presents an IoT Based Smart Car Parking System which displays the parking slot number of vacant slots on the LCD display when the car arrives at the gate. It initially checks the presence of the vehicle in each of the parking slots and then displays the slot number of a vacant slot on an LCD display placed near the gate. This guides the new car to park at the appropriate slot. The status of each parking slot is also uploaded onto thingspeak cloud platform. Raspberry pi is used to control the whole mechanism. This prototype also gives an option of controlling the opening/closing of the gate by a website. The gate can be controlled by a website created using HTML and flask package in Raspbian Operating System. This feature is added for security purposes. The objective of this paper is to develop an intelligent, user-friendly automated car parking system that reduces the manpower and traffic congestion and to offer safe and secure parking slots within a limited area.

© 2020, IJARIIT.COM All Rights Reserved

**Keywords:** Internet of Things (IoT), Raspberry pi, HTML

Read Full Paper · Download PDF · Back to index

---

149 **Comparative studies of Eri Silkworm (Philosamia Cynthia Ricini) reared on artificial diet and natural castor leaves (Ricinus communis Linn)**

Paper ID V6I2-1471 · Pages 678-685 · Biotechnology

**Mousumi Mondal**, Doctrate Degree Holder, Mallipathra Nutraceutical Private Limited, Bengaluru, Karnataka
**Dhattatreya Hosagrahar**, Director, Institute of Integrated Resource Management, Tezpur, Assam
**Srinivas Bandlamuri Venkataramana**, Director, Aspartika Biotech Private Limited, Bengaluru, Karnataka

Eri-silkworms (Philosamia cynthia ricini) were reared on castor leaves (its natural host plant) from 1st to 5th instars and artificial diet upto second instar then shifted to castor leaves. The larval duration was one day more in diet batches than leaves batches. The cocoon yield increased 13% cocoons in diet feed batches than leaf fed batches. Flimsy cocoons % was more in leaves chawki reared Eri silkworm. The Stable cocoons crops in artificial diet Eri chawki rearing than leaves rearing.

**Keywords:** Artificial Diet, Eri silkworm, Castor leaves, Cocoon

Read Full Paper · Download PDF · Back to index

---

150 **Application of response surface methodology to optimize performance and emission characteristics of a diesel engine run on Karanja methyl ester blend with conventional diesel oil and picric acid as an additive**

Paper ID V6I2-1456 · Pages 686-693 · Mechanical Engineering

**Sagar Tadkal**, Visvesvaraya Technological University, Mysore, Karnataka
**M C Math**, Professor, Visvesvaraya Technological University, Mysore, Karnataka

© 2020, IJARIIT.COM All Rights Reserved

An experimental investigation was done on diesel engines run on a blend of Karanja biodiesel and diesel in the ratio of 40:60 (B40) with different additive percentages (1.5%, 3%, and 4.5%). In this work, Picric acid dissolved in n-butyl alcohol (nBAPA) is used as an additive. The performance and emission tests were carried for three inputs-Load, compression ratio (CR) and B40 with different percentage of nBAPA and six outputs- brake specific fuel consumption (BSFC), brake thermal efficiency (BTHE) and Hydrocarbons (HC), Carbon monoxide (CO), Nitrogen oxides (NOX) and Carbon dioxide (CO2). A set of experiments were conducted by using the central composite design of response surface methodology (RSM) through Design Expert-10. The predicted and experimental maximum BTHE of 23.52% and 23.44 % were obtained at load 9.36 kg, CR 15, B40 with a 3% additive. The predicted and experimental minimum BSFC of 0.38kg/kWh and 0.37 kg/kWh were obtained load 9.36 kg, CR 15, B40 with a 3% additive. The predicted and experimental minimum CO2 of 2.13% and 2.29% were obtained at load 4 kg, CR 16, B40 with 1.5% additive. The predicted and experimental minimum HC of 3.33ppm and 4ppm was obtained at load 2.63 kg, CR 15, B40 with a 3% additive. The predicted and experimental minimum CO of 0.055% and 0.056% were obtained at load 8 kg, CR 16, and B40 with 4.5% additive. The predicted and experimental minimum NOx of 113.71ppm and 120ppm were obtained at load 2.63 kg, CR 15, B40 with a 3% additive.

**Keywords:** Karanja biodiesel, Optimization, RSM, nBAPA additive

Read Full Paper · Download PDF · Back to index

---

151 **Numerical investigation of a modified NACA-0018 Airfoil using Bumpy Profile at Low Reynolds Number**

Paper ID V6I2-1470 · Pages 694-707 · Aerodynamics

**Ammar Ewis**, Research Scholar, The British University in Egypt, Cairo, Egypt
**Ahmed El-Baz**, Professor, The British University in Egypt, Cairo, Egypt

Flow separation is one of the major problems affecting the performance of all airfoils under a high angle of attack. Several passive flow mechanisms have been investigated to limit this phenomenon and improve the aerodynamic efficiency of the airfoil by increasing the lift force while decreasing the drag force associated with it. This study investigates the application of surface bumps over both the suction and pressure sides of the NACA-0018 airfoil at low Reynolds number of 500,000. The bump shapes resemble the shape of the Hawk which does not show a smooth profile in nature. The bumps are introduced in the form of sine waves with different amplitudes and periods. Bumps on each side have been investigated separately, the optimum amplitude and period are determined, the two optimum parameters were joined together forming a new airfoil shape. It was found that this approach limits separation at the stall angle and reduces the drag force as a result of the bumps on the suction side. The bumps on the pressure side were found to enhance the lift force as high-pressure spots are formed, which increases the differential pressure. Glide ratio improvement of 17% was reached using the modified airfoil.

**Keywords:** CFD, Bio-inspired, Airfoils, Hawk wing

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 152 GSM based detection system for home security

Paper ID V6I2-1473 · Pages 708-710 · Electronics And Communication Engineering

**Shweta Nagle**, Student, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh
**Sapna Verma**, Student, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh
**Avantika Ghanekar**, Student, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh
**Mahesh Gangare**, Student, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh
**Ankit Soni**, Student, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh
**Ganesh Suryawanshi**, Student, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh
**Shubham Satpute**, Student, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh
**Nilesh Mishra**, Guide, Shri Balaji Institute of Technology and Management, Sakadehi, Madhya Pradesh

The research paper explores the perception of safety and security. The aim of this project development is to reduce the incident at home. In this model, we present the design and implementation of a home security system by using a global system for mobile communication modem (GSM). As the system senses/detects any parameter such as gas leakage, high temperature at home. It will respond and do alert to the homeowner. It also detects the intrusion by using of IR sensor placed at the entry point. All these sensors are associated with microcontroller ATmega328 which will produce output in case of tragedies. The GSM and microcontroller communicate through the USART protocol with the desired baud rate of 9600bps. In case of emergency, the system generates an alert message that can be transmitted to homeowners' service number which we have fed into the system. The idea behind this project is to provide a simple, affordable, fast, effective, and reliable way to get help in case of emergency situations.

**Keywords:** GSM, SMS, Sensors, LCD display, Microcontroller

Read Full Paper · Download PDF · Back to index

---

## 153 Talking Hand Gloves

Paper ID V6I2-1474 · Pages 711-714 · Electronics And Communication

**P. Rajesh**, Assistant Professor, B.V. Raju Institute of Technology, Hyderabad, Telangana
**Shivani Devda**, Student, B.V. Raju Institute of Technology, Hyderabad, Telangana
**Anukruthi Karre**, Student, B.V. Raju Institute of Technology, Hyderabad, Telangana
**Sai Preethi Nadendla**, Student, B.V. Raju Institute of Technology, Hyderabad, Telangana
**Singamsetty Sri Niharika**, Student, B.V. Raju Institute of Technology, Hyderabad, Telangana

The paper describes an aiding device for the dumb and physically challenged people. Such people are made to wear gloves fitted with flex sensors and tactile switches whose resistance changes with each gesture shown by them. This produces a voltage change and given to the micro-controller which will send the sign language codes corresponding to each gesture to the android app and then sounds the code of sign which is given by hand via the speaker.

**Keywords:** Sign language, Flex sensor, Tactile buttons, Bluetooth HC-05, GSM modem, Gloves, Arduino Uno, Speaker, Text message

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

154 **Application of the enhanced single face photo as a novel screening tool for diagnosis of dengue infection and influenza**

Paper ID V6I2-1447 · Pages 715-724 · Medicine And Medical Imaging

**Manote Arpornsuwan**, Doctrate Degree Holder, Independent Researcher
**Matinun Arpornsuwan**, M.D., Independent Researcher

The invisible facial flushing in dengue infection and influenza can be detected and visible by the Manote and Matinun (M&M) technique using PC program and smartphone app. The unique patterns of facial flushing provide a clue to the diagnosis of dengue infection and influenza. To analyze the facial flushing areas in dengue infection and influenza compared with other causes from the single face photo by smartphone camera app and apply the enhanced single face photo as a novel screening tool for diagnosis of dengue infection and influenza. The patients with acute febrile illness were classified into 4 groups of different underlying causes as other causes, dengue, influenza A and influenza B respectively. The single face photo was enhanced with the Rock Art Enhancer app using for Android smartphone in 3 steps modified from the Manote and Matinun technique and further analyzed with the ImageJ program with Color Inspector 3D plugin. The patterns of the facial flushing areas were differentiated into 3 categories, as no facial flushing, localized facial flushing and generalized facial flushing. The analysis of the facial flushing areas was calculated in percents of primary and secondary facial flushing areas (1 FFA and 2 FFA). The sensitivity or "true positive rate" of 3 steps modified Manote and Matinun technique for all tests in dengue, influenza A and influenza B group is 96.8% (94.2% for all patients). The 97.8% of dengue group tests (94.7% for of dengue patients) could be detected the facial flushing either localized or generalized pattern. The upper cut-off points that helps distinguish from neither dengue nor influenza to either dengue or influenza is approximately 20% and 9% in the primary facial flushing areas (1 FFA) and the secondary facial flushing areas (2 FFA) respectively. Although the generalized facial flushing patterns were found in dengue (66.7%) more than in influenza (50%), but we could not distinguish between dengue and influenza, depending on two different patterns of facial flushing (no statistically significant differences, $P = 0.09$). The enhanced single face photo with 3 steps modified Manote & Matinun technique is useful as a novel screening tool to distinguish other causes of acute febrile illness from both dengue infection and influenza. The upper cut-off points in both primary facial flushing areas (1 FFA) and the secondary facial flushing areas (2 FFA) help for the recognition and diagnosis either dengue infection or influenza. Because it is useful and effective as well as economical and available so it should be suitable for a novel screening tool in the diagnosis of dengue infection and influenza, including for the application of telemedicine in the future.

**Keywords:** Facial Flushing, Dengue infection, Influenza, Face photo, Smartphone Application, Rock Art Enhancer App, Screening tool, Telemedicine

Read Full Paper · Download PDF · Back to index

© 2020, IJARIIT.COM All Rights Reserved

## 155 Application of RSM to optimize performance and emission characteristics of a diesel engine fuelled with Karanja methyl ester and its blends with conventional diesel oil

Paper ID V6I2-1457 · Pages 725-733 · Biodiesel

**Sagar Tadkal**, Visvesvaraya Technological University, Mysore, Karnataka
**M. C. Math**, Professor, Visvesvaraya Technological University, Mysore, Karnataka

An experimental investigation was done on a variable compression ratio diesel engine fuelled with blends of Karanja oil methyl ester (B100) and conventional diesel oil (B00) in the proportion of 20:80 (B20), 30:70 (B30), and 40:60 (B40). The performance and emission tests were carried out on diesel engines for three input parameters and six out parameters. The load, compression ratio (CR), and biodiesel blends are used as input operating parameters. The output parameters are brake specific fuel consumption (BSFC), brake thermal efficiency (BTHE), and emissions like Hydrocarbons (HC), Carbon monoxide (CO), Nitrogen oxides (NOX) and Carbon dioxide (CO2). To find the optimal response, a set of experiments was conducted using the design of experiments suggested by Response surface methodology. Design Expert-10 was used to get the set of experiments for optimization. The predicted maximum BTHE (23.21%) and experimental maximum BTHE (23.27 %) were obtained at the optimal operating parameters of load 8 kg, CR 14, blend B20. The predicted minimum BSFC (0.37kg/kWh) and experimental minimum BSFC (0.37 kg/kWh) were obtained at the optimal operating parameters of load 8 kg, CR 14, blend B20. The predicted minimum CO2 (2.64%) and experimental minimum CO2 (2.54%) were obtained at the optimal operating parameters of load 2.63 kg, CR 15, blend B30. The predicted minimum HC (16.68ppm) and experimental minimum HC (16ppm) were obtained at the optimal operating parameters of load 4 kg, CR 16, blend B20. The predicted minimum CO (0.065%) and experimental minimum HC (0.059%) were obtained at the optimal operating parameters of load 8 kg, CR 16, blend B40. The predicted minimum NOx (168ppm) and experimental minimum NOx (131.03ppm) were obtained at the optimal operating parameters of load 2.63 kg, CR 15, blend B30. It is found that the predicted and the experimental results were almost the same.

**Keywords:** Karanja methyl ester, Optimization, RSM, Variable compression ratio.

Read Full Paper · Download PDF · Back to index

---

## 156 Analysis of G+4 Building with or without inclined member (Haunch) for supporting floating column

Paper ID V6I2-1460 · Pages 734-737 · Civil Engineering

**Yamini Bhoyar**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Pranoti Raut**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Shrikant Kongre**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Veersamrat Kadu**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Preetam Pandey**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Rahul Korote**, Student, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra
**Manish Sapate**, Professor, Rajiv Gandhi College of Engineering and Research, Nagpur, Maharashtra

In today’s world the needs of people are changing very rapidly. As a result requirement for more space for

© 2020, IJARIIT.COM All Rights Reserved

parking areas, lobbies are increasing day by day, hence nowadays the floating columns are introduced in the buildings, but providing floating column is not safe as per the design is concerned, hence to support the floating column an inclined member named as haunch is provided to support the floating column and make the building more stable. This project deals with the comparative study of the analysis of multi-storied buildings with and without haunch provided at different positions, thereby aims at providing a safe position of haunch in a building. The equivalent static analysis is carried out on the school building of G+4 stories using STAAD PRO V8i software and a comparison of these models is carried out.

**Keywords:** Floating column, Haunch, STAAD PRO

Read Full Paper · Download PDF · Back to index

---

## 157 Translation Media

Paper ID V6I2-1480 · Pages 738-742 · Information Technology

**Ankita Jawadwar**, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Deepali Masare**, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra
**Priyanka Belanekar**, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra

Translation media is a paper in which one vocabulary language is translated into another vocabulary language.

**Keywords:** Deep learning, NLTK toolkit, Text-blob, Natural language processing

Read Full Paper · Download PDF · Back to index

---

## 158 Smart Classroom

Paper ID V6I2-1491 · Pages 743-748 · Electronic And Communication Engineering

**M. Venkata Akhil**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**Dr. R. Balaji**, Associate Professor, B. V. Raju Institute of Technology, Hyderabad, Telangana
**N. Pradeep**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**M. Rama Sai Kaushik**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana

© 2020, IJARIIT.COM All Rights Reserved

Smart products have influenced the market to create our lives easier at home, within the workplace, and everywhere. Technology has benefited in each aspect of our life right from education to communication. It's a fresh vision in education. The best usage of technology can bring an enormous change in education. The smart learning approach makes the learners of all age groups and walks of life with a framework and variety of smart tools that encourage higher levels of understanding. The education system of a nation like India has made students follow a stereotyped method of learning. Students are practiced to take notes on continuous lectures. This has eventually decreased the listening capability of students and also students who absent themselves to classes find it difficult to follow-up the portions. This system proposes to develop a method in which thelectures are taken as notes automatically; students just need to listen to classes. Teachers respective to all the departments will be identified using an RFID reader and notes are maintained as a database. At the end of the day, the notes are sent as mail to students who are absent from classes. Thereby by the concept of the smart classroom, we can emphasize learning the concepts which lead to innovative and interactive learning sessions ultimately enhancing the performance.

**Keywords:** Smart Learning, Notes, Innovative and Interactive Learning, RFID Reader

Read Full Paper · Download PDF · Back to index

---

## 159 Proper balance of direct response marketing and brand marketing for product and brand dominance in current market

Paper ID V6I2-1485 · Pages 749-755 · Marketing

**Karan Chauhan**, Epsilon India, Bangalore, Karnataka

As the market place has emerged from small scale to a global scale it has also resulted in products and services of similar nature and requirements to come up in the same environment as geographical factors and economical factors had lesser impact on them as market kept developing. The concept of global village or globalization resulted in brands and companies to spread over the globe, as the factors like transporting the goods or providing services to far away destinations were not as big a concern for them anymore due to the advancements in technology in every aspect like that of transport and communication. This bridged the gap in the market which was observed in the early time. Products which were manufactured in one corner of the world were easily available in the other corner of the world alongside the products of the companies present there. This resulted in saturating the market environment and making it competitive. In such scenarios marketing tools become the important tools to distinguish and separate one product or service from other in the same market bubble. Direct Marketing and Brand Marketing emerged as the two big pillars of marketing campaigns. The objective of direct marketing was to establish direct channels of communication with the consumers and convince them of their supremacy in the market like Google, Apple, etc. Whereas the objective of Brand marketing was to establish the brand as a name for itself in the market which resonated the ideas of reliability and customer satisfaction for those who were related to the brand name or those who were customers for the same like PVR cinema, TATA, etc. This paper has two aspect to it, first is the understanding of Direct Response Marketing and Brand Marketing and the other aspect is the proper utilization of both the tools in the designing of a marketing campaign for a product or a service provided by a company.

© 2020, IJARIIT.COM All Rights Reserved

**Keywords:** Direct Response Marketing, Brand Marketing, Personal Factor, Psychological Factor, Social Factor, Globalization, Consumer, Campaign, Channels and Marketing

Read Full Paper · Download PDF · Back to index

---

## 160 A review of Coronavirus 2019 (COVID – 19)

Paper ID V6I2-1488 · Pages 756-758 · B Pharmacy

**Archana Salunkhe**, Student, Navsahyadri Group of Institutes, Pune, Maharashtra
**Vishal Galave**, Student, Navsahyadri Group of Institutes, Pune, Maharashtra

Coronaviruses are a group of enveloped viruses with nonsegmented, single-stranded and positive-sense RNA genomes., severe acute respiratory syndrome coronavirus (SARS-CoV) and the Middle East respiratory syndrome coronavirus (MERS-CoV) are zoonotic and highly pathogenic coronaviruses that have resulted in regional and global outbreaks Coronaviruses possess a distinctive morphology, the name being derived from the outer fringe, or —corona‖ of the embedded envelope protein

**Keywords:** 2019-nCov, SARS-CoV-2, COVID-19

Read Full Paper · Download PDF · Back to index

---

## 161 Platform to improve the reachability of web based advertisement

Paper ID V6I2-1487 · Pages 759-761 · Cloud Computing

**V. Karunai Arasu**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**T. M. Lakshme Prabha**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**S. Dineshwaran**, Student, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu
**R. Muralidharan**, Assistant Professor, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu

Advertisements are the messages that are intended to inform or influence the people who receive them. It is a paid announcement in a newspaper or on a television or on a poster about a product, event, or a job. In olden day advertisement was carried out by printing messages in the bronze plate, and by painting in-wall or rock and by campaigning. After that, it was carried out in the billboards, flyers or pamphlets, television, newspaper, radio, etc. In recent years traditional advertisement is getting changed into a web-based advertisement. It is the type of advertisement that uses the internet to deliver promotional marketing messages to consumers. It is very important to get the attraction of the customer. This project focuses on improving the reachability of that advertisement in a cost-efficient manner. This platform allows the user to post their advertisement on a different website. In turn, it will generate the report through which the user can identify the best place to get a better response from the social media, e-commerce, etc.

**Keywords:** AdWords, Pay per click, Advertising, Social networks, Twitter, Click-through rates

Read Full Paper · Download PDF · Back to index

---

© 2020, IJARIIT.COM All Rights Reserved

## 162 Weather prediction using Machine Learning

Paper ID V6I2-1489 · Pages 762-764 · Electronics And Communication Engineering

**Harsh Agarwal**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**K. Sai Charan**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**S. Harsha Vardhan**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**J. Ashok Kumar**, Assistant Professor, B. V. Raju Institute of Technology, Hyderabad, Telangana
**P. Someshwar Goud**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana
**Vamshi Krishna**, Student, B. V. Raju Institute of Technology, Hyderabad, Telangana

The burgeoning research in the fields of Artificial Intelligence and machine learning has given rise to numerous weather prediction models. But the problem of accurately predicting or forecasting the weather persists. Numerical weather prediction is taking the existing numerical data on weather conditions and applying machine learning algorithms to forecast the weather. This paper is the application of machine learning algorithm-decision Tree to predict the weather based on a few parameters such as temperature, pressure, humidity. Using the stepwise regression process along with the decision tree, weather forecasting is achieved.

**Keywords:** Weather Prediction, Machine Learning, Efficiency, Decision Tree, Stepwise Regression, Dataset, Temperature, Humidity, Pressure, Error

Read Full Paper · Download PDF · Back to index

## 163 Design and fabrication of ceiling fan

Paper ID V6I2-1490 · Pages 765-767 · Mechanical Engineering

**Kiran Thorve**, Assistant Professor, IETES's Bharat College of Engineering, Thane, Maharashtra
**Sachin Gadhave**, Student, IETES's Bharat College of Engineering, Thane, Maharashtra
**Prasad Gaikar**, Student, IETES's Bharat College of Engineering, Thane, Maharashtra
**Amol Desai**, Student, IETES's Bharat College of Engineering, Thane, Maharashtra
**Amey Sakre**, Student, IETES's Bharat College of Engineering, Thane, Maharashtra

The project runs on the concept that when electric generator rotates at some appropriate speed it produces electricity. So, here we proposed a device that can be assembled to a system which has rotary motion and produces electricity. The idea behind it was to give relief to farmers by using the same rotary motion of the water pump and generate the electricity by using the device and charge the battery so that during the cut-off of electricity we can run the pump using the same electricity. So to show the device will work, here we made the device which is fixed with the fan and due to the rotary motion of the fan, the device generates the electricity and charge the battery and can use that stored electricity again when required. So, this will give little bit relief to the farmers if more research is done on it, but this device can be very useful in homes as it connects to fan it can generate a sufficient amount of electricity on which one can use led light bulbs which will reduce the electricity consumption. This will help in completing the need of electricity of all. The fan rotates at 300 rpm at normal and when we attach our device it rotates at the speed of 275 rpm and simultaneously produces 9.87 volts which can be used to run other appliances which we need to run on electricity.

**Keywords:** Electricity, Generator, Ceiling fan

Read Full Paper · Download PDF · Back to index

© 2020, IJARIIT.COM All Rights Reserved

## 164 Formulation, development and evaluation of Polysaccharide based Gastro-retentive Formulation for Delivery of Anti-Hypertensive Drug

Paper ID V6I2-1341 · Pages 768-775 · Pharmaceutics

**Dr. Gyati Shilakari Asthana**, Professor, Gokaraju Rangaraju College of Pharmacy, Hyderabad, Telangana
**Kavi Soundarya**, Student, Bharat Institute of Technology, Hyderabad, Telangana
**Vemula Nagamani**, Student, Bharat Institute of Technology, Hyderabad, Telangana

In situ gel-forming systems have been widely investigated as vehicles for sustained drug delivery. In situ gel formation occurs due to one or a combination of different stimuli like pH change, temperature modulation, and solvent exchange. So, In situ gelling system via different routes such as oral, nasal, ophthalmic, etc can be formulated. In the present research work Oral Floating Insitu gel of Captopril was formulated using Sodium alginate. The optimized batch gave drug release for 7 hrs in the polymer combination of Sodium Alginate 1% and sodium bicarbonate 1.25%. It was found to be floating for more than 12 hrs. The batch was found to be stable for 2 months of instability study.

**Keywords:** Captopril, In-situ gel, In-vitro study

Read Full Paper · Download PDF · Back to index

## 165 Three-dimensional additive manufacturing

Paper ID V6I2-1464 · Pages 776-777 · Electronics And Communication Engineering

**Jayasangeetha J.**, Student, Panimalar Institute of Technology, Chennai, Tamil Nadu
**Swarna Pragna**, Student, Panimalar Institute of Technology, Chennai, Tamil Nadu
**Marlapati G. Pravallika**, Student, Panimalar Institute of Technology, Chennai, Tamil Nadu
**M. Jayashree**, Guide, Panimalar Institute of Technology, Chennai, Tamil Nadu

The technology we used in this project was once a dream dreamt by several people, wondering whether they could bring their imagination into reality. This report gives us detailed information about using a three-dimensional printer to create an object. The method we have used here is FDM(Fused Deposition Modelling).

**Keywords:** Three-dimensional printer, FDM (Fused Deposition Modelling)

Read Full Paper · Download PDF · Back to index

© 2020, IJARIIT.COM All Rights Reserved

# Thank You!

## www.IJARIIT.COM

Encouraging Research

| Important Links | |
|---|---|
| Submit Paper Online | Author Guidelines |
| Track Your Paper | Call For Papers |
| Publication Fee | Current Issue |

Contact Us

Volume 12, Issue 6 (November-December, 2026) is open for submissions. Last date: 31st December, 2026.

© 2020, IJARIIT.COM All Rights Reserved