International Journal Of Advance Research, Ideas And Innovations In Technology

VOLUME 8 - ISSUE 2

IJARIIT

SPECTRUM

International Journal of Advance Research, Ideas and Innovations in Technology

March-April, 2022

77	178	61	5
PAPERS	AUTHORS	INSTITUTIONS	COUNTRIES

INSIDE THIS ISSUE

Recent Developments in Biopolymeric Biodegradable Mulching Film for Agriculture Applications –... p. 1

Enabling authorized encrypted search for multiauthority database p. 13

Service sector-HR challenges p. 18

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 8, Issue 2 (March-April, 2022). This edition brings together 77 papers by 178 authors from 61 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

© 2022, IJARIIT.COM All Rights Reserved

Research areas		Authors by country	
Economics	**5**	India	**70**
Computer Science	**4**	Pakistan	**4**
Electrical Power	**4**	Erode	**1**
Computer Science Engineering	**3**	Vietnam	**1**
Computer Science AndEngineering	**3**	United Arab Emirates	**1**
Information Technology	**3**		

© 2022, IJARIIT.COM All Rights Reserved

Indexing of Volume 8 – Issue 2

S. No	Title	Page Number	Links
1.	**Recent Developments in Biopolymeric Biodegradable Mulching Film for Agriculture Applications – A Literature Review** *Vikas Bhausaheb Mhaske, Dr. Dilip D. Sarode* **Master of Engineering in Plastic, Department of General Engineering, Institute of Chemical Technology, Matunga, Mumbai, Maharashtra, Department of General Engineering, Institute of Chemical Technology, Matunga, Mumbai, Maharashtra**	1-12	View Abstract Download PDF
2.	**Enabling authorized encrypted search for multiauthority database** *Kosuru Sneha, Mallina Alekhya, G. Pooja, T. Kiruba Devi, Dr. T. V. Ananthan, K. Lokesh* **Dr. M.G.R. Educational and Research Institute, Chennai, Tamil Nadu, Vel Tech University, Chennai, Tamil Nadu**	13-17	View Abstract Download PDF
3.	**Service sector-HR challenges** *Sriranganadh Bandi* **Mallareddy Institute of Engineering College for Women, Secunderabad, Telangana**	18-19	View Abstract Download PDF
4.	**E-Endhan** *Ankita Ojha, Alok Tripathi, Alpika Srivastava, Akash Gupta* **Institute of Technology and Management, Gorakhpur, Uttar Pradesh**	20-22	View Abstract Download PDF
5.	**Land use and land cover change due to mining activities in Ramagundam Area, Telangana State, using Change Detection Analysis** *Mohd Akram Ullah Khan, A. Narsing Rao* **Osmania University, Hyderabad, Telangana**	23-27	View Abstract Download PDF
6.	**Artificial Intelligence** *Inder Singh Mawai, Akhilesh, Md Azar* **Manav Rachna International Institute of Research and Studies, Faridabad, Haryana**	28-30	View Abstract Download PDF
7.	**Estimation of uniaxial compressive strength of coal measures of Mallayapally block of Mulugu coal belt, Godavari valley coal field, using sonic logs** *Lalu Naik, A. Narsing Rao* **Geology Department, Hyderabad, Telangana**	31-37	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
8.	**Smart Garbage Bin** *Debjit Ghorai, Shireen Samar, Chandan Hazra, Somraj Dutta, Dr. Sandhya Pattanayak* **Narula Institute of Technology, Kolkata, West Bengal**	43-50	View Abstract Download PDF
9.	**Artificial Intelligence based video games** *Rohit Singh Rawat, Fardeen Saifi, Jai Kumar Sharma, Vishawjyoti Rathi* **Manav Rachna International Institute of Research and Studies, Faridabad, Haryana**	51-52	View Abstract Download PDF
10.	**Digital Banking: Current trends and prospects in India** *Dr. Ramesh Raj Ayer, Karthik M.* **AIMS Institutes, Bengaluru, Karnataka**	53-63	View Abstract Download PDF
11.	**Reliable communication using modified TCP over Wireless Network** *Subhasis Banerjee* **Visva-Bharati University, Bolpur, West Bengal**	64-66	View Abstract Download PDF
12.	**Odishi Music System: An Exclusive Musical Tradition of India** *Dr. Niladri Kalyan Das* **OAV Bhalubasa, Kaptipada, Mayurbhanj, Odisha**	67-69	View Abstract Download PDF
13.	**Beneficiaries of Maternity Benefit Programmes: A case study of Chittoor District** *Bukke Ravi Naik* **Department of Adult and Continuing Education, Sri Venkateswara University, Tirupati, Andhra Pradesh**	70-75	View Abstract Download PDF
14.	**An observational, cross-sectional study on Eating disorders amongst college going students.** *Dr. Mukta Nivedita Bera, Dr. Dariker Bateilin Kharmujai, Dr. Afshan A. Balekundari* **AM Shaikh Homeopathic Medical College and Hospital, Belagavi, Karnataka**	76-82	View Abstract Download PDF
15.	**Analysis of SCR, R and RL load, R and RC, DIAC circuit** *Parth Bhiva Naik, Swaroop Parab, Omkar Gawas, Gangaram Desai* **Yashwantrao Bhonsale Polytechnic, Sawantwadi, Maharashtra**	83-84	View Abstract Download PDF
16.	**Smart blind stick using Arduino** *Shreeja Sarkar, Swastik Chakraborty, Aritra Das, Soumya Santra, Rajat Kumar Prasad, Soumen Pal* **Narula Institute of Technology, Kolkata, West Bengal**	85-88	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
17.	**Prakruti Parikshan – Critical Review and its Importance in Management of Disease** *Archana Dnyaneshwar Rohankar, Dr. Madhuri Pachghare* **Government Ayurved College, Nagpur, Maharashtra**	89-94	View Abstract Download PDF
18.	**India as an Emerging Global Power, Role of MGNREGS Past, Present and Future** *Dr. Ravikiran Ramanand Garje* **K. C. College, HSNC University, Mumbai, Maharashtra**	95-102	View Abstract Download PDF
19.	**Land degradation due to coal mining in and around Manuguru, Bhadradri Kothagudem District, Telangana, India** *Tahmeena Begum, A. Narsing Rao* **Osmania University, Hyderabad, Telangana**	103-107	View Abstract Download PDF
20.	**Investigation with languages in Amitav Ghosh's Ibis trilogy** *J. Samson, Capt. Dr. N. Mythili* **Sri Vasavi College, Erode, Tamil Nadu**	108-111	View Abstract Download PDF
21.	**Equal opportunity for growth & development** *Dr. Ravikiran Ramanand Garje* **HSNC University, Mumbai, Maharashtra**	112-119	View Abstract Download PDF
22.	**IoT based monitoring system to detect covid-19 and other health issues using Arduino microcontroller** *S. Priyanka, D. Shanmugavel, Dr. D. Rajinigirinath* **Sri Muthukumaran Institute of Technology, Chennai, Tamil Nadu**	120-122	View Abstract Download PDF
23.	**Public sector banks in India need to be given autonomous status** *Dr. Ravikiran Ramanand Garje* **HSNC University, Mumbai, Maharashtra**	123-129	View Abstract Download PDF
24.	**Pothole detection for accident prevention: A review** *C. Sai Adarsh Varma, Chethan Kumar, Abhishek Sirdeshpande, Akshay B. R., Sowmiya Bharani B.* **REVA University, Bengaluru, Karnataka**	130-138	View Abstract Download PDF
25.	**Performance analysis of DC Micro-grid using distributed energy sources** *Gitanjali D. Atwal, Dr. P. J. Shah* **SSBT's College of Engineering and Technology, Jalgaon, Maharashtra**	139-145	View Abstract Download PDF
26.	**An analysis of noise reduction for sputum smear microscopy images** *A. Amala Shiny, Dr. B. Sivagami* **South Travancore Hindu College, Kottar, Tamil Nadu**	146-150	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
27.	**Intrusion detection system** *Rahul Kumar, Pradeep Kumar Mishra, Harsh Jha, Aman Raj, Nishat Fatima* **Sharda University, Greater Noida, Uttar Pradesh**	151-155	View Abstract Download PDF
28.	**Employee management system using spring boot and react JS** *Alluri Harshika* **Gandhi Institute of Technology and Management, Visakhapatnam, Andhra Pradesh**	156-158	View Abstract Download PDF
29.	**The Classic Launcher Two-Wheeler Showroom Android Application** *Sakshi Mahalle, Shivani Dahake, Bhagyashri Ghatol, Renu Ingle, Vaishnavi Khandekar, Sunpreet Kaur Nanda, Vaishali Bhagat* **P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra**	159-164	View Abstract Download PDF
30.	**DSACSS: Deep Learning-based spectrum allocation with cooperative spectrum sensing for cognitive WSNs** *Vidya E. V., B. S. Shylaja* **Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka**	165-173	View Abstract Download PDF
31.	**Snowflake Internship/Training Project Report** *Y. Swetha, Dr. G Sandhya Devi* **Gandhi Institute of Technology and Management, Visakhapatnam, Andhra Pradesh**	174-209	View Abstract Download PDF
32.	**Assessment of Groundwater Quality for Drinking and Irrigation in Watershed Boundary-Bachannapet Region, Jangaon District, Telangana State, India** *MD. Ameena Begum, J. Ratnakar* **Osmania Univerity, Hyderabad, Telangana**	210-217	View Abstract Download PDF
33.	**Predicting the power of Combined Cycle Power Plant** *Gopi Edimudi, Katika Arshad, Mohammed Muzammil* **Jain (Deemed-to-be University), Bengaluru, Karnataka**	218-221	View Abstract Download PDF
34.	**Review of image segmentation techniques** *Rohan More* **Patkar Varde College, Mumbai, Maharashtra**	222-224	View Abstract Download PDF
35.	**Role of judiciary in Indian economy & economic cost of delay in justice** *Dr. Ravikiran Ramanand Garje* **K. C. College, Mumbai, Maharashtra**	225-228	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
36.	**Microservices: Architecture, containers, and challenges** *Rohan Talekar* **Patkar Varde College, Mumbai, Maharashtra**	229-231	View Abstract Download PDF
37.	**Android privacy leakage detection using static analysis** *Harsh Jha, Manish Verma, Prashant Gautam* **Sharda University, Greater Noida, Uttar Pradesh**	232-235	View Abstract Download PDF
38.	**Analytical study of tools for Big data analytics** *Shubham Milind Lokhande* **Patkar Varde College, Mumbai, Maharashtra**	236-238	View Abstract Download PDF
39.	**Culture management in merger & acquisition: A literature review** *Inshu Rani, Pratiksha Barve, Sudisha Biswas* **Universal Business School, Karjat, Maharashtra**	239-245	View Abstract Download PDF
40.	**Cloud computing and its research challenges** *Parth Khajgiwale* **International Institute of Information Technology, Pune, Maharashtra**	246-247	View Abstract Download PDF
41.	**Experimental investigation on steel fiber reinforced concrete with partial replacement of fine aggregate by copper slag** *Kishore M., Anurekha G. S.* **SNS College of Technology, Coimbatore, Tamil Nadu**	248-253	View Abstract Download PDF
42.	**Supply chain of electric vehicle and batteries** *Preet Bhatt, Ankit Srivastava, Sachinkumar Mishra* **Universal Business School, New Delhi, Delhi**	254-259	View Abstract Download PDF
43.	**Design, Developement and Testing of Eclipse Drive Train for Wind Turbine** *Nilam Mali, Dr. Sarang P. Joshhi* **JSPM's Imperial College of Engineering and Research, Pune, Maharashtra**	260-265	View Abstract Download PDF
44.	**Automatic room temperature controller using Arduino in Tinkercad** *Surendhiran Tamilalagan* **SASTRA Deemed University, Thanjavur, Tamil Nadu**	266-268	View Abstract Download PDF
45.	**Impact of demographic factors and risk tolerance on investors of Raipur city, Chhatisgarh** *Tanishka Agrawal, Jhalak Jain* **Jain University, Bengaluru, Karnataka**	269-282	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
46.	**Technical and environmental analysis of SHP in RET Screen: A case study of power production at Machai/Mardan** *Nageen Jalal, Dr. Anjum Khalid* **NED University of Engineering and Technology, Karachi, Pakistan**	283-287	View Abstract Download PDF
47.	**Design of feedforward controller for fast controllability of active power of VSC-connected to weak AC network** *Nageen Jalal* **University of Engineering and Technology, Peshawar, Pakistan**	288-290	View Abstract Download PDF
48.	**Research proposal- Small Hydropower Impact on-Grid Stability -A case study at Mardan II grid and Relevant 132KV Network** *Nageen Jalal* **NED University of Engineering and Technology, Karachi, Pakistan**	291-304	View Abstract Download PDF
49.	**Research thesis- Load Flow Studies and Dynamic Simulation of Power System: A case study of interconnection for new Run-of-River Hydropower Plant at Machai with National Grid** *Nageen Jalal* **NED University of Engineering and Technology, Karachi, Pakistan**	305-373	View Abstract Download PDF
50.	**Voice control home automation using adafruit io and IFTTT** *Surendhiran Tamilalagan* **Shanmugha Arts, Science, Technology and Research Academy, Thanjavur, Tamil Nadu**	374-377	View Abstract Download PDF
51.	**Vison-based human activity recognition** *M. Madhusudhan, B. Manish Kumar, P Rohit, V. Sri Ram Reddy, V. Sai Chandana* **CMR Technical Campus, Hyderabad, Telangana**	378-381	View Abstract Download PDF
52.	**Hydrochemical analysis and assessment of groundwater quality in and around Yadadri district, Telangana, India.** *Bharath Kumar Punna, Botla Amarender, K. Praveen Reddy, G. Prabhakar* **Osmania University, Hyderabad, Telangana**	382-389	View Abstract Download PDF
53.	**Visitor information management and analysis system: Neeri-pass** *Barkha Ramteke, Dr. Sonali Ridhorkar* **G. H. Raisoni Institute of Engineering and Technology, Nagpur, Maharashtra**	390-392	View Abstract Download PDF
54.	**Solar power plant with MPPT algorithm** *M. Divya* **Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh**	393-396	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
55.	**Leveraging a convolutional neural network for developing a hand-written text recognition system** *Likith Pulluri, Yashwanth Konakanchi, Divya Prabha, Asima Nayak, Pradeep Kumar Mishra* **Sharda University, Greater Noida, Uttar Pradesh**	397-401	View Abstract Download PDF
56.	**Analytical and Systematic Study of Artificial Neural Network** *Shreyas Barge* **Keraleeya Samajam Dombivli (East), Dombivli, Maharashtra.**	402-405	View Abstract Download PDF
57.	**Mobile app for location-based offers** *Saloni Yadav, Darshana Hindole, Ashwini Waje* **Datta Meghe College of Engineering, Navi Mumbai, Maharashtra**	406-407	View Abstract Download PDF
58.	**Housing policy in developing economies: The importance of regulation** *Adit Jacob* **Independent Researcher**	408-415	View Abstract Download PDF
59.	**Exploring challenges in implementing hybrid learning in cycle two public girls' schools in the United Arab emirates** *Wadha Saif Ahmed* **American University of Ras Al Khaimah, Ras Al-Khaimah, United Arab Emirates**	416-423	View Abstract Download PDF
60.	**Low-cost approach towards the design and development of lower limb exoskeleton** *Ramendra Verma, Vishnu Dev Singh* **Delhi Technological University, New Delhi, Delhi**	424-431	View Abstract Download PDF
61.	**Water demand prediction using the KNN algorithm** *Sourabh Kattimani, Nethra H. L., Bhuvana B., Shashikala C. R., Sachin G. C.* **Dayananda Sagar Academy of Technology and Management, Udayapura, Karnataka**	432-434	View Abstract Download PDF
62.	**Assessment of groundwater quality with special emphasis on fluoride contamination in and around Devarakonda Mandal, Nalgonda district, Telangana State, India** *Lavudi Neela, B. Linda Prabhakar Babu* **Osmania Univerity, Hyderabad, Telangana**	435-440	View Abstract Download PDF
63.	**Efficacy of Ayurvedic Anti- Hair fall Shampoo (Emami Kesh King Scalp and Hair medicine Anti Hairfall Shampoo) – Hair fall reduction** *Dr. G. Gandhimathi* **GR Ayurvedic Research Centre, Chennai, Tamil Nadu**	441-451	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
64.	**Efficacy of ayurvedic oil (Advanced Emami Kesh King Scalp and Hair Medicine Ayurvedic Oil) – Hair growth, hair fall reduction and dandruff protection** *Dr. G. Gandhimathi* **GR Ayurvedic Research Centre, Chennai, Tamil Nadu**	452-460	View Abstract Download PDF
65.	**Efficacy of a topical ayurvedic preparation (Zandu ultra power balm) – relief from cold and associated symptoms** *G. Gandhimathi* **GR Ayurvedic Research Centre, Chennai, Tamil Nadu**	461-466	View Abstract Download PDF
66.	**Advancement in Multimedia Information System Security** *Pranav Sanjay Patil* **Late G. N. Sapkal College of Engineering, Nashik, Maharashtra**	467-483	View Abstract Download PDF
67.	**Recognition of objects in Adverse Weather conditions using Dual Subnet Network in Comparison with CNN Network** *K. Pavan Kumar, K. Bhanu Teja, B. Deepa, M. Sagar, C. Venkata Sai Rakesh, I. Suneetha Rani* **Annamacharya Institute of Technologies and Sciences, Rajampeta, Andhra Pradesh**	484-488	View Abstract Download PDF
68.	**Image caption generator using CNN and LSTM** *Julu Basnet, Supriya Kumari, Mohit Rathore, Dipanshu* **Sharda University, Greater Noida, Uttar Pradesh**	489-495	View Abstract Download PDF
69.	**Solar Inverter with Wireless Home Automation System** *Yukta Sawant, Kunal Pathare, Rakesh Patel, Sahil Sane, Sachin Shinde, Dr. Prashant Deshmukh* **New Horizon Institute Technology and Management, Thane, Maharashtra**	496-499	View Abstract Download PDF
70.	**Sentiment classification with the BERT procedure based on deep learning** *P. Susmitha, V. Swetha, S. Udaya, K. Anusha, P. Nagendra* **Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh**	500-504	View Abstract Download PDF
71.	**Artificial Reaching and Feeding Hand** *Amarnath V., Ashif C. M., Aryatheertha A. P., S. Dinesh* **RVS Technical Campus, Coimbatore, Tamil Nadu**	505-511	View Abstract Download PDF
72.	**Jurisdiction of Crimes in the high Seas** *K. Aditya* **Christ University (Deemed to be University), Bangalore, Karnataka**	512-515	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

S.No	Title	Page Number	Links
73.	**Rise in child labour during lockdown** *Anakha A. Nair, Dr. Neeru Sidana* **Amity University, Noida, Uttar Pradesh**	516-524	View Abstract Download PDF
74.	**Execution or Rehabilitation: A comparative analysis between the criminalization of drug use in the Philippines and Portugal** *Prithviraj Sudarsan* **Christ University (Deemed to be University), Bangalore, Karnataka**	525-528	View Abstract Download PDF
75.	**Impact on rubber plantation during COVID-19: A study of Kottayam district** *Anakha A. Nair, Dr. Neeru Sidana* **Amity University, Noida, Uttar Pradesh**	529-537	View Abstract Download PDF
76.	**Drowsiness detection using OpenCV** *Bobby Tripathi, Harsh Kumar singh, Ragini Kumari* **Galgotias University, Greater Noida, Uttar Pradesh**	538-542	View Abstract Download PDF
77.	**Automatic Accident Detection System using GPS and GSM Module** *Kamaleshwaran P., Arunkumar S., Kanagaraj A., Abimanyu M., Gowtham M. P.* **VSB Engineering College, Karur, Tamil Nadu**	543-545	View Abstract Download PDF

© 2022, IJARIIT.COM All Rights Reserved

ABSTRACTS

1 Recent Developments in Biopolymeric Biodegradable Mulching Film for Agriculture Applications – A Literature Review

Paper ID V8I2-1144 · Pages 1-12 · Plastic And Polymer Engineering

Vikas Bhausaheb Mhaske, Student, Master of Engineering in Plastic, Department of General Engineering, Institute of Chemical Technology, Matunga, Mumbai, Maharashtra
Dr. Dilip D. Sarode, Professor, Department of General Engineering, Institute of Chemical Technology, Matunga, Mumbai, Maharashtra

This paper reviews the recent developments (last two decades) in biodegradable mulching film for agriculture applications in terms of their formulation development, process understanding, properties, field performance, and identifying gaps that earlier researchers did not do. Advancements in the method of application of such biodegradable mulch film on various vegetables and crops, problems of existing conventional mulch film, and new technological developments in terms of mulch film chemistry are briefly discussed. This review focuses on various testing methodologies and characterization techniques required for mulch film. Overall, the objective of this review is to provide insights into bio- polymeric mulching film formulation technologies which may guide future research toward sustainable agricultural bio-mulch film.

Keywords: Mulching Film, Bio-Degradable Mulch Film, Bio-Polymer, Film Blowing

Read Full Paper · Download PDF · Back to index

---

2 Enabling authorized encrypted search for multiauthority database

Paper ID V8I2-1146 · Pages 13-17 · Data Mining And Energy Computing

Kosuru Sneha, Student, Dr. M.G.R. Educational and Research Institute, Chennai, Tamil Nadu
Mallina Alekhya, Student, Dr. M.G.R. Educational and Research Institute, Chennai, Tamil Nadu
G. Pooja, Student, Dr. M.G.R. Educational and Research Institute, Chennai, Tamil Nadu
T. Kiruba Devi, Guide, Dr. M.G.R. Educational and Research Institute, Chennai, Tamil Nadu
Dr. T. V. Ananthan, Guide, Dr. M.G.R. Educational and Research Institute, Chennai, Tamil Nadu
K. Lokesh, Studet, Vel Tech University, Chennai, Tamil Nadu

E-medical records are sensitive and should be stored in a medical database in encrypted form. However, simply encrypting these records will eliminate data utility and interoperability of the existing medical database system because encrypted records are no longer searchable. Moreover, multiple authorities could be involved in controlling and sharing the private medical records of clients. However, authorizing different clients to search and access records originating from multiple authorities in a secure and scalable manner is a nontrivial matter. To address the above issues, we propose an authorized searchable encryption scheme under a multi-authority setting. Specifically, our proposed scheme leverages the RSA function to enable each authority to limit the search capability of different clients based on clients' privileges. To improve scalability, we utilize multi-authority attribute-based encryption to allow the authorization process to be performed only once even over policies from multiple authorities. We conduct rigorous security and cost analysis and perform experimental

© 2022, IJARIIT.COM All Rights Reserved

evaluations to demonstrate that the proposed scheme introduces moderate overhead to existing searchable encryption schemes.

Keywords: Multi-Authority, Encrypted Data Search, E-Medical System, Cloud Storage, Forward Security

Read Full Paper · Download PDF · Back to index

---

3 Service sector-HR challenges

Paper ID V8I2-1156 · Pages 18-19 · Human Resource Management

Sriranganadh Bandi, Assistant Professor, Mallareddy Institute of Engineering College for Women, Secunderabad, Telangana

We are might and the service is the soul of a god. The most successful or measured word as it is service by which seven continents develop their cultural actives in a regional level and a national level without an absence of the combination word as it is loyalty, next to the third big word as it is an organization or an industry. The following facilities are a restaurant, transport, preservation, it, financing, insurance, real-estate business services, community, social and personal services, and services associated with construction

Keywords: Might, Loyalty, Life Style, Pith, Bodily Order, Selection, Youngling, Be, Blind, Retain, Qualified Agricultural, DailyEarners, Trade, Green, Frequent, Infrequent, Anti, Ethical, Sucession, Transparency, Psychological Performance

Read Full Paper · Download PDF · Back to index

---

4 E-Endhan

Paper ID V8I2-1148 · Pages 20-22 · Computer Science

Ankita Ojha, Student, Institute of Technology and Management, Gorakhpur, Uttar Pradesh
Alok Tripathi, Student, Institute of Technology and Management, Gorakhpur, Uttar Pradesh
Alpika Srivastava, Student, Institute of Technology and Management, Gorakhpur, Uttar Pradesh
Akash Gupta, Student, Institute of Technology and Management, Gorakhpur, Uttar Pradesh

Petroleum and diesel products are rare and very much costly but can obtain them on e-commerce platforms on a pre-booking basis is as rare as them obtaining them from the earth. Mobile Apps, home delivery, online payments are the support of the digital or online market. The concept of delivering petrol, diesel, coal, and CNG at your doorstep with the help of applications like “My Petrol Pump” and “Book My Petrol” have come into the industry recently but this is limited to very short distance and not more famous like Amazon, Flipkart in INDIA. E-endhan will work as an online platform that provides these petroleum products to your doorstep on pre-booking basis and refuel your vehicle. This review paper tests the promotion or awareness of the doorstep delivery of petroleum products through e-commerce platforms and customers’ acceptance of the technology and online market for these products.

Keywords: E-Commerce, E-Endhan, Refuel, Online market

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

5 Land use and land cover change due to mining activities in Ramagundam Area, Telangana State, using Change Detection Analysis

Paper ID V8I2-1169 · Pages 23-27 · Department Of Geology

Mohd Akram Ullah Khan, Research Scholar, Osmania University, Hyderabad, Telangana
A. Narsing Rao, Professor, Osmania University, Hyderabad, Telangana

Mining is going on continuously land use and cover studies are of vital importance, the present study is utilized Multi-Spectral / multi-temporal data of Indian Remote Sensing Satellite (RS) geo-coded False Colour Composite (FCC), RESOURCESAT-2 LISS IV data 8th Feb 2012 and 10th May 2018 for land use and land cover mapping Survey of India Toposheet No 56N/5 On Scale 150:000 were used to derive the base map which was overlaid on the FCC for Land use, land cover mapping. Through visual interpretation and delineation of 7 land use land cover categories such as Vegetation, Village, Mining Area, Urban Cover, Barren Land, Forest, and Water Bodies. Ground truths verification was indicted in the key areas. The Comparative Analysis of land use/land cover derived from 2012 to 2018 data shows that loss of Tanks area and due to the Expansion of Coal mining activity, Settlement area has also interested from 14 km in 2012 to 55km, mining area increased from 48 km to 67 km from 2010 to 2018 as a result of coal mining areas.

Keywords: Land Use Land Cover, Change Identification, Minting Activities, Urbanization, Remote Sensing, GIS

Read Full Paper · Download PDF · Back to index

---

6 Artificial Intelligence

Paper ID V8I2-1167 · Pages 28-30 · Ai

Inder Singh Mawai, Student, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana
Akhilesh, Student, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana
Md Azar, Student, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana

Artificial intelligence (AI) is the cap potential of a laptop or a robot controlled through manner of approach of a laptop to do responsibilities which may be commonly finished through manner of approach of humans because of the reality they require human intelligence and discernment. It is intelligence that is shown by machines same as intelligence shown by humans to perform a specific task that needs critical thinking. This machine mimics cognitive functions performed by the human mind in his/her daily tasks. Artificial intelligence is done by many multinational companies like Google, Netflix, etc. Even it is used in self-driving cars as demonstrated by Tesla. As a discipline of academics, it is founded in 1956.

Keywords: Introduction, Reasoning, Perception, Learning, Planning, Limitations, Conclusion

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

7 Estimation of uniaxial compressive strength of coal measures of Mallayapally block of Mulugu coal belt, Godavari valley coal field, using sonic logs

Paper ID V8I2-1174 · Pages 31-37 · Geology

Lalu Naik, Research Scholar, Geology Department, Hyderabad, Telangana
A. Narsing Rao, Professor, Geology Department, Hyderabad, Telangana

The Mallayapally block is located in the central part of Mulugu coal belt forms more or less rectangular block with average strike length of 3.30 km and width of 1.20 km. The Mallayapally block empirical research found an exponential link between Vp calculated from sonic logs and Uniaxial Compressive Strength (UCS) calculated from core samples of sandstones from all throughout the Godavari Valley. Vp and Tensile Strength (TS) and Vp and Young's Modulus (E) have both been found to have polynomial and exponential connections. The empirical connections can be a valuable tool for understanding the effects of regional and local geological and geotechnical variables on mine development and management.

Keywords: Uniaxial Compressive Strength, Tensile Strength, Young’s Modulus of Mallayapally Block of Mulugu Coal Belt, Godavari Valley coal fields.

Read Full Paper · Download PDF · Back to index

---

8 Smart Garbage Bin

Paper ID V8I2-1173 · Pages 43-50 · Electronics & Communication Engineering

Debjit Ghorai, Student, Narula Institute of Technology, Kolkata, West Bengal
Shireen Samar, Student, Narula Institute of Technology, Kolkata, West Bengal
Chandan Hazra, Student, Narula Institute of Technology, Kolkata, West Bengal
Somraj Dutta, Student, Narula Institute of Technology, Kolkata, West Bengal
Dr. Sandhya Pattanayak, Guide, Narula Institute of Technology, Kolkata, West Bengal

Garbage management is real trouble in society. The population and the garbage also are increasing proportionally. Many times, we see that the garbage bins are placed in public places are overflowing. The negligence of authorities and carelessness of the public create an unhygienic condition for the people, lead to health problems (some deadly diseases & human illness) and also create bad smell which causes damage to local ecosystems. Here we propose a smart garbage bin that can detect the level of garbage at various parts of the dustbin, level of garbage can be monitored via an app and sends message alert to respective authorities to collect that trash when it crosses a threshold level.

Keywords: Waste Management System, Arduino IDE, Ultrasonic Sensor, Bluetooth, Kodular

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

9 Artificial Intelligence based video games

Paper ID V8I2-1163 · Pages 51-52 · Artificial Intelligence

Rohit Singh Rawat, Student, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana
Fardeen Saifi, Student, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana
Jai Kumar Sharma, Student, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana
Vishawjyoti Rathi, Assistant Professor, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana

Since Artificial Intelligence is primarily based on video games is usually specifically designed for every game. Video games A.I. Tools presently concentrate on permitting video games developers to quickly and with efficiency produce specific A.I. one issue with this approach is that it doesn't with efficiency exploit the many similarities that exist between video games not only of a similar genre. however of the various genre too, leading to a problem to handle the various aspects of a fancy setting severally for every video game. Galvanized by the human ability to sight analogies between games and apply similar behavior on an abstract level. This paper recommends the associate degree approach of A.I. in Video games.

Keywords: Bots, Video Games Based on Artificial Intelligence, Artificial Intelligence, COG Bots in Architecture, Game Programming

Read Full Paper · Download PDF · Back to index

---

10 Digital Banking: Current trends and prospects in India

Paper ID V8I2-1178 · Pages 53-63 · Management

Dr. Ramesh Raj Ayer, Professor, AIMS Institutes, Bengaluru, Karnataka
Karthik M., Student, AIMS Institutes, Bengaluru, Karnataka

Today there is tremendous growth in the use of digital banking through mobile phones in India. The entire ecosystem for digital banking has been made possible by the initiative of the Government and has received a boost on account of the present Covid-19 Pandemic scenario. With the current pace of rapid ongoing technology intervention in the financial sector via digital banking activity one witness a very huge increase in the use of financial services via technology. This has been an eye-opener to all the commercial banking activity in the country to tap the huge potential of the unbanked market area that is available across India as well as the e-commerce space. It is conservatively estimated that about 60% of the Indian population has a mobile phone. With financial tools provided in the mobiles, a handheld bank is available in every corner of India covered by telecom services. Thanks to technology and digitization, various initiatives like Jan Dhan Yojana, Direct benefit transfers, RuPay card, account dormancy, Aadhar card, Unified payment interface, Demonetization, GST, New regulatory framework, New Payment Banks, Fintech, etc., we are witnessing an ongoing "digital financial inclusion" in the country. Thanks to the digital initiative, today in India the Financial inclusion concept has become very important and has touched all aspects of society. The consumer perception towards digital payment is an important element contributing to the success of digital banking. Whether the process of digital banking will sustain and become a standard practice for all payments across domains in India or is it only a passing fancy being adopted mainly by the younger generation is a question that needs to be examined. This research is directed to understand the development of digital banking in India as well as aimed at providing a glimpse of the user's behavior in respect of the use of digital banking, the satisfaction level, and

© 2022, IJARIIT.COM All Rights Reserved

factors that affect its adoption.to understand the user perception and future intention. The research aimed at providing a glimpse of the user's behavior in respect of the use of digital banking, the satisfaction level, and factors that affect its adoption. It has helped to identify the challenges in digital banking and predicts a successful future prospects for digital banking in India

Keywords: Digital Banking, Mobile Payment, DFI, Payment Bank, Fintech, e-Commerce

Read Full Paper · Download PDF · Back to index

---

11 Reliable communication using modified TCP over Wireless Network

Paper ID V8I2-1193 · Pages 64-66 · Wireless Network

Subhasis Banerjee, Assistant Professor, Visva-Bharati University, Bolpur, West Bengal

Existing Transport Protocols like TCP is well-tuned to the traditional networks made up of wired links and fixed hosts. TCP provides reliable end-to-end delivery of packets between hosts in packet-switched computer communication networks. It provides reliability by retransmitting packets that are not delivered within a specific timeout interval. Because of the relatively low error rates on the wired network, TCP correctly manages the losses in a congested network. TCP reacts to packet losses by dropping the transmission window at the sender and initiating congestion control mechanisms like slow start that reduce the load on the network. TCP reacts to packet losses by dropping its window size and initiating congestion control or avoidance mechanisms in a network consisting of wireless links characterized by high bit-error rates, intermittent connectivity, and handoff-related losses. This is because it does not distinguish between transmission-related losses and losses due to congestion. Such a TCP reaction results in an avoidable reduction in the link bandwidth utilization and, consequently, significant degradation in performance in the form of poor throughput and high interactive delays. This paper presents some modifications to the existing TCP protocol. We have modified the TCP protocol to make it suitable for wireless communication environments. We have studied the performance of our modification in comparison to some other existing TCP protocols.

Keywords: Congestion Avoidance, Fast Recovery, Fast Retransmission and Slow Start, Mobile Ad-hoc Network, WTCP, MTCP

Read Full Paper · Download PDF · Back to index

---

12 Odishi Music System: An Exclusive Musical Tradition of India

Paper ID V8I2-1186 · Pages 67-69 · Performing Art

Dr. Niladri Kalyan Das, OAV Bhalubasa, Kaptipada, Mayurbhanj, Odisha

Peculiarities in the presentation of Odissi. The delivery style of Odissi Music: Of all the arts performing Art is of highest design and it is known when someone performs it before audience. The language originality and epical standard of music will be more as and when its recital style is developed and enchanting. Nice musical feeling is generated in our body when we hear a song being sung or an instrument being played. Then only we accept music. An artist enchants the audience through his concentrated tone. Therefore, epical Raga Sangeet is enriched by the beautiful language of artist and it is disciplined through the classical artists. As because the classical music is a loud tonic music, there are rules and regulations for its recital. The classical artists try their best to make the song hearty and touchy. Therefore the classical music will be more lively when it is disciplined

© 2022, IJARIIT.COM All Rights Reserved

and orderly.

Keywords: Odishi, Regulations, Parampara, Prayoga, Prabidhhi

Read Full Paper · Download PDF · Back to index

13 Beneficiaries of Maternity Benefit Programmes: A case study of Chittoor District

Paper ID V8I2-1188 · Pages 70-75 · Health And Welfare

Bukke Ravi Naik, Research Scholar, Department of Adult and Continuing Education, Sri Venkateswara University, Tirupati, Andhra Pradesh

Women constitute half of the total population in India. Though, their contribution to workforce is also significant, their work has not been considered as economical. But during the 21st Century, the situations have changed and their work is also considered as economical. Due to globalization, the women too coming out of the homes for earning and they were given with more opportunities at all levels at their workplaces both in organized and unorganized sectors. But, it is well known factor that women have to contribute for reproductive spheres also and it will be difficult to them to discharge their work responsibilities during the prenatal, natal and postnatal periods. Hence, the Government has implemented several Maternity Benefit Schemes for facilitating the women at prenatal, natal and post natal conditions. The present study is an attempt to identify the profile of the beneficiaries of Maternity Benefit Programmes in Chittoor district of Andhra Pradesh. The study revealed that majority of the beneficiaries of Maternity Benefit Programmes in Chittoor district are younger in age group, belongs to backward communities, highly educated, working as employees and earning less than Rs. 20000/- as income, got married before reaching 20 years and conceived before attainment of 20 years, the gap between first and second pregnancy is one to two years, had institutional deliveries, particularly in government hospitals and adopted family planning after second delivery, undergone family planning operation in government hospital.

Keywords: Maternity Benefit Scheme, Beneficiaries, age at marriage, conception, contraception, deliveries, pregnancy, prenatal, natal, postnatal

Read Full Paper · Download PDF · Back to index

14 An observational, cross-sectional study on Eating disorders amongst college going students.

Paper ID V8I2-1194 · Pages 76-82 · Medical

Dr. Mukta Nivedita Bera, Research Scholar, AM Shaikh Homeopathic Medical College and Hospital, Belagavi, Karnataka
Dr. Dariker Bateilin Kharmujai, Research Scholar, AM Shaikh Homeopathic Medical College and Hospital, Belagavi, Karnataka
Dr. Afshan A. Balekundari, Professor, AM Shaikh Homeopathic Medical College and Hospital, Belagavi, Karnataka

Aim: The aim of this research paper was to point out the actual factors behind the Eating disorder (ED) prevalant in the college going students in Belagavi, Karnataka and to study the actual factors behind the Eating

© 2022, IJARIIT.COM All Rights Reserved

disorders. As Eating disorder (ED) is a very under-studied topic & hard-to-diagnose because of the psychiatric condition. Especially among the young adults who are mostly college students who face many challenges as they navigate through a transitional stage of life shows a high mortality rate . OBJECTIVE: 1.To find out the risk factors leading to eating disorders among students. 2.To compare the prevalence level among male and female students. METHODOLOGY: - An observational and cross-sectional study was conducted on 200 students from age group 18–25 years by means of simple random sampling. The heights and weights of the students were recorded. A descriptive study design with following questionnaires were distributed among the participants - Eating Attitudes Test (EAT26), Perceived Stress Scale (PSS), Body Shape Questionnaire (BSQ34), and Demographic Details. The results were analyzed and tabulated using the SPSS software (version 20.1). Written consent was obtained from the individuals and the permission was obtained from the Head of the institutions. A detailed instruction was given to all the students by the assessor who is not involved in the study. RESULT: It was found that 13% of the students had a high risk for eating disorders. High risk was associated with severe body shape concerns (p

Keywords: ED - Eating Disorder, AN - Anorexia Nervosa, BN - Bulimia Nervosa , Homoeopathy

Read Full Paper · Download PDF · Back to index

---

15 Analysis of SCR, R and RL load, R and RC, DIAC circuit

Paper ID V8I2-1175 · Pages 83-84 · Electrical Engineering

Parth Bhiva Naik, Student, Yashwantrao Bhonsale Polytechnic, Sawantwadi, Maharashtra
Swaroop Parab, Student, Yashwantrao Bhonsale Polytechnic, Sawantwadi, Maharashtra
Omkar Gawas, Student, Yashwantrao Bhonsale Polytechnic, Sawantwadi, Maharashtra
Gangaram Desai, Student, Yashwantrao Bhonsale Polytechnic, Sawantwadi, Maharashtra

In this report it consist of how the model is done of study of DIAC characteristics, R & RC Triggering circuit, & speed controlling using SCR. SCR is a unidirectional device that allows the current in one direction & repel in another direction.

Keywords: Electrical Kits, RL load

Read Full Paper · Download PDF · Back to index

---

16 Smart blind stick using Arduino

Paper ID V8I2-1203 · Pages 85-88 · Electronics Engineering

Shreeja Sarkar, Student, Narula Institute of Technology, Kolkata, West Bengal
Swastik Chakraborty, Student, Narula Institute of Technology, Kolkata, West Bengal
Aritra Das, Student, Narula Institute of Technology, Kolkata, West Bengal
Soumya Santra, Student, Narula Institute of Technology, Kolkata, West Bengal
Rajat Kumar Prasad, Student, Narula Institute of Technology, Kolkata, West Bengal
Soumen Pal, Assistant Professor, Narula Institute of Technology, Kolkata, West Bengal

A smart stick conception is constructed to give a smart electronic aid for sightless people. Sightless and visually disabled find difficulties in detecting obstacles during walking in the street. The system is intended to give artificial vision and object finding, real-time backing via making use of Arduino UNO. A brief study had been

© 2022, IJARIIT.COM All Rights Reserved

carried out to understand varied issues related to the design which involves furnishing a smart electronic aid for eyeless people to give artificial vision and object discovery, real backing via GPS module by using Arduino UNO. Our design substantially focuses on visually disabled people who can not walk singly.

Keywords: Visually Disabled, Arduino UNO, Smart Electronic Aid, Ultrasonic Detector, Microcontroller

Read Full Paper · Download PDF · Back to index

---

17 Prakruti Parikshan – Critical Review and its Importance in Management of Disease

Paper ID V8I2-1210 · Pages 89-94 · B.a.m.s

Archana Dnyaneshwar Rohankar, Student, Government Ayurved College, Nagpur, Maharashtra
Dr. Madhuri Pachghare, Associate Professor, Government Ayurved College, Nagpur, Maharashtra

The word ‘Prakruti’(constitution) means samya (equilibrium), arogya (health), svabhav (nature), karana, end stage of life,body constitution etc. Here Prakruti reflects the natural state of human beings an anatomical,physiological and psychological level that is permanent throughout the life.(1)The purpose of Dashavidha Pariksha (ten fold investigation methods) in Charak Samhita is to obtain knowledge regarding Vyadhi bala(strength of disease) and Rogibala(strength of patient). The Prakruti Parikshan of a person holds a first place in Dashvidh Rogi pariksha described in Ayurveda.(2) In Ayurveda three Doshas Vata,Pitta and Kapha are the basic mutually reciprocal mechanisms that are responsible for the maintenance of homeostasis in human beings.Prakruti is based on Tridosha (three body humors)as well as Triguna (three functional psychic factors) based on dominance of any single or a combination of two or three doshas.(3)Every individual has a different combination and is therefore a distict entity.The individuals of specific prakruti exhibit biological variations in terms of structure, function , behaviour , individual response to internal and external environmental stimuli , susceptibility to different diseases. Prakruti Vinishchaya (prakruti analysis) helpful to physician decides to prescribe a particular medicine and recommends a certain dietary regimen which suits that Prakruti.

Keywords: Prakruti, Dashvidha Pariksha, Prakruti Vinishchaya, Tridosha, Triguna

Read Full Paper · Download PDF · Back to index

---

18 India as an Emerging Global Power, Role of MGNREGS Past, Present and Future

Paper ID V8I2-1208 · Pages 95-102 · Economics

Dr. Ravikiran Ramanand Garje, Professor, K. C. College, HSNC University, Mumbai, Maharashtra

At present India is said to be third largest economy in the world in terms of PPP. However, we still need to find out solutions for high poverty, income inequality and large unemployment. Poor health, malnutrition and low literacy rate are other issues. Provision of employment can solve most of these issues. Hence, in this paper it is tried to analyze the Performance of MAHATMA GANDHI NATIONAL RURAL EMPLOYMENT GUARANTEE SCHEME (MGNREGS) in Past, Present and Future.

© 2022, IJARIIT.COM All Rights Reserved

Keywords: MGNREGS, EGS

Read Full Paper · Download PDF · Back to index

---

19 Land degradation due to coal mining in and around Manuguru, Bhadradri Kothagudem District, Telangana, India

Paper ID V8I2-1222 · Pages 103-107 · Geology

Tahmeena Begum, Research Scholar, Osmania University, Hyderabad, Telangana
A. Narsing Rao, Professor, Osmania University, Hyderabad, Telangana

Coal is the most polluting source which creates many environmental problems at various stages of its procurement from mining, transportation, stockpiling, coal preparation, and utilization stages of operation. Huge quantities of waste material are produced by several mining activities in the coal-mining region. The study area has an enormous resource of coal catering to the needs of thermal plants and the cement industry in the State. Mining practices are opencast and underground and all mining operations are mechanized. Mining leads to Land degradation and has an adverse impact on the environment, whether it is opencast or underground. The study reveals that land degradation is inevitable due to mining operation.

Keywords: Coal Mining, Mining Operations, Mechanized Land Degradation

Read Full Paper · Download PDF · Back to index

---

20 Investigation with languages in Amitav Ghosh’s Ibis trilogy

Paper ID V8I2-1206 · Pages 108-111 · English

J. Samson, Research Scholar, Sri Vasavi College, Erode, Tamil Nadu
Capt. Dr. N. Mythili, Assistant Professor, Sri Vasavi College, Erode, Tamil Nadu

Amitav Ghosh's Ibis Trilogy at face esteem is an authentic fictitious work that reproduces the dinky opium exchange between British India and China which finishes into an all-out battle between England and China. Notwithstanding, the three books Sea of Poppies, River of Smoke, and Flood of Fire additionally investigate political, social, business, and etymological complexities of the early pioneer time frame. This article inspects how Amitav Ghosh all through more than 1600 pages of his much-acclaimed set of three tried different things with undoubtedly 23 different dialects and lingos, at the scenery of the tremendous seascape of the Indian Ocean, from Cape Town to Hong Kong the Opium War between the British Empire and China in 1839.

Keywords: Ibis Trilogy, Amitav Ghosh, Language, Indian Writing in English

Read Full Paper · Download PDF · Back to index

---

21 Equal opportunity for growth & development

Paper ID V8I2-1229 · Pages 112-119 · Economics

Dr. Ravikiran Ramanand Garje, Professor, HSNC University, Mumbai, Maharashtra

Inequality is a common thing in every aspect of human life and bringing equality is a special and difficult one. It

© 2022, IJARIIT.COM All Rights Reserved

is just impossible to bring 100 percent equality in any society; however, reducing inequality is possible with special efforts. When we have wrestling between a physically strong wrestler and a weak wrestler then obviously strong wrestler will win the fight. However, if we provide equal opportunities to both the wrestler by providing the same food, same nutrient ions, the same amount of training, same weight, etc then having a fight will be giving unbiased and just result. This paper, it is tried to brief the laws related to equal opportunity in India and United Nations Organization and also tried to identify inequalities due to income, gender, caste, and religion in India. Measures taken by Central and State governments to reduce inequality are not sufficient and more measures needed to be taken.

Keywords: Equality, Opportunity, Growth, Development, GNP, PCI, Marginalized sections (i.e. Females, Transgender, Physically Disabled, SCs, STs, OBCs, Economically Weaker Sections (EWS) and religious minorities).

Read Full Paper · Download PDF · Back to index

---

22 IoT based monitoring system to detect covid-19 and other health issues using Arduino microcontroller

Paper ID V8I2-1234 · Pages 120-122 · Iot

S. Priyanka, Student, Sri Muthukumaran Institute of Technology, Chennai, Tamil Nadu
D. Shanmugavel, Assistant Professor, Sri Muthukumaran Institute of Technology, Chennai, Tamil Nadu
Dr. D. Rajinigirinath, Principal, Sri Muthukumaran Institute of Technology, Chennai, Tamil Nadu

Covid-19 and its variant viruses have killed millions of human population, whereas still more numbers are being infected and admitted every day. As per records, severe infection causes Pneumonia associated with high pulse and breathing rates, and low blood oxygen. Pulse rate and blood oxygen level are two parameters that medical experts use to diagnose and measure Pneumonia and Bronchitis through sensors. Therefore, it has become a very important research direction to detect the pulse wave accurately, quickly, and conveniently. Those sensors are used to scan patients' measurements which are widely available in developed countries. As their costs are prohibitively high for wide penetration in developing countries we developed and tested the performance of an Atmel ATmega 328P MCU and MAX30100 sensor kit-based pulse rate, blood oxygen monitor, and blood pressure. By using our project we can know whether the person is having danger of cardiac arrest, fever. The parameters here we measured are temperature, heartbeat, and pulse by using respective sensors. The data from the sensors are given to the Arduino Uno. This project aims at developing a system that gives pulse rate and SPO2 respectively. These sensors are interfaced with an Arduino microcontroller board. The value of saturation oxygen level, pulse rate, and blood pressure records will be uploaded to cloud software

Keywords: Arduino Uno, Temperature Sensor, LCD, GSM, Max30100, Blood Pressure Sensor, Buzzer, Arduino-IDE, Embedded C

Read Full Paper · Download PDF · Back to index

---

23 Public sector banks in India need to be given autonomous status

Paper ID V8I2-1240 · Pages 123-129 · Economics

Dr. Ravikiran Ramanand Garje, Professor, HSNC University, Mumbai, Maharashtra

© 2022, IJARIIT.COM All Rights Reserved

Public Sector Banks have played a very important role in providing credit to Priority Sector, sectors in Rural India. Recent scams in Public Sector Banks and increasing NPAs have created a voice for the privatization of PSU Banks. This paper advocates autonomous status for PSU Banks and keeping control of the Government sector at least 50 % shareholding in such banks needed for meeting targeted lending to the priority sectors of the economy.

Keywords: PSBs (Public Sector Banks), NPAs (Non-Performing Assets), Navratna (Autonomous Status)

Read Full Paper · Download PDF · Back to index

---

24 Pothole detection for accident prevention: A review

Paper ID V8I2-1233 · Pages 130-138 · Computer Science Engineering

C. Sai Adarsh Varma, Student, REVA University, Bengaluru, Karnataka
Chethan Kumar, Student, REVA University, Bengaluru, Karnataka
Abhishek Sirdeshpande, Student, REVA University, Bengaluru, Karnataka
Akshay B. R., Student, REVA University, Bengaluru, Karnataka
Sowmiya Bharani B., Independent Researcher, REVA University, Bengaluru, Karnataka

Potholes are a nuisance to society, especially to individuals who use public roads. The importance of road infrastructure for society is comparable to the importance of blood vessels in humans. Crevasse and gouge are the main factors that cause road accidents and damage to vehicles. They should be spotted and corrected before they become a hazard. Road conditions can thus be improved through the detection of potholes. It is the goal of engineers to continuously monitor and repair the roads to ensure that they are in good shape. Having objective and comprehensive data about the condition of the roadways is a promising method for achieving this objective. About two million kilometers of roads in India are surfaced with around one million kilometers being poorly constructed. The various problems that plague Indian roads are largely caused by the improper maintenance of the roadways. No matter where you go in India, you'll find one or more roads with potholes. While Indians have learned to perfect their driving skills to compensate for disheveled roads, there are many accidents around the country. This paper compares various subjects such as YOLO, SSD, HOG, Neural network, Inception V3,2D LiDAR, CNN-DL, R-CNN, etc. for predicting well holes. This paper introduces the state of the art in well-known mining detection techniques that discuss a variety of methods and identify the best solutions for real-time implementation under extreme conditions and working conditions thereby ensuring human safety.

Keywords: Machine Learning, Deep Learning, 2d-LiDAR, NodeMCU, Potholes, Accidents, R-CNN, YOLO

Read Full Paper · Download PDF · Back to index

---

25 Performance analysis of DC Micro-grid using distributed energy sources

Paper ID V8I2-1243 · Pages 139-145 · Electrical Engineering

Gitanjali D. Atwal, Student, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
Dr. P. J. Shah, Professor, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra

The hunt for a replacement, safe and stable renewable energy supply junction rectifier to the thought of operational controls are designed to support the combination of wind and alternative energy among small

© 2022, IJARIIT.COM All Rights Reserved

grids. With the event of renewable energy like chemical element energy, renewable energy provides are a very important part of the DC microgrid. A mass model of renewable wind and solar energy generation forecast is planned to support the quantification of the operational reserve for day-ahead and period programing. Then, droop management for power electronic converters connected to battery storage is developed and tested. Compared with the present droop controls, it's distinguished therein that the droop curves are set as perform of the storage state-of-charge (SOC) and may become uneven. The difference of the slopes ensures that the ability output supports the terminal voltage whereas at an equivalent keeping the SOC within a firing range of desired operational reserve. This is often shown to take care of the equilibrium of the microgrid period offer and demand. The controls are enforced for the special case of a dc microgrid that's vertically integrated among a high-rise host building of a geographic area. Antecedently untapped wind and alternative energy are harvested on the roof and sides of a tower, thereby supporting delivery to electrical vehicles on the bottom. The microgrid vertically integrates with the host building while not making an outsized footprint.

Keywords: Microgrid, MATLAB, Optimization, Photovoltaic, Renewable Energy Sources, Wind Energy Conversion System, Solar, Wind

Read Full Paper · Download PDF · Back to index

---

26 An analysis of noise reduction for sputum smear microscopy images

Paper ID V8I2-1242 · Pages 146-150 · Computer Science And Applications

A. Amala Shiny, Research Scholar, South Travancore Hindu College, Kottar, Tamil Nadu
Dr. B. Sivagami, Associate Professor, South Travancore Hindu College, Kottar, Tamil Nadu

Sputum smear microscopy is a primary tool used for the diagnosis of pulmonary TB diseases. Due to its accessibility, minimal bio-safety standards, and cost-effectiveness, the latter is the most preferred test in low- and middle-income countries [26]. De-noising is a fundamental challenge in microscopy image processing because the images are highly corrupted by salt and pepper noise while transmitting. This paper makes a survey on five methods that can be efficiently applied in de-noising the sputum smear microscopy image processing tasks. The five de-noising methods to publish the survey are namely LCD, GPPCM, IMF, ASWMF, and SAF-RGM. The effectiveness of this survey comes along with the metrics such as Peak Signal noise, Root Mean square Error, and the Mean Structure Similarity Index. Many methods for rebuilding spotless images from noisy versions have been proposed. Both the methodology and the outcomes of these methods are dissimilar. This assessment work presents a broad study on image de-noising and suggests a number of promising future research directions.

Keywords: Pulmonary TB Diseases, Salt And Pepper Noise, Medical Image Processing, Impulse Noise, Microscopy Image Enhancement

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

27 Intrusion detection system

Paper ID V8I2-1250 · Pages 151-155 · Intrusion Detection System

Rahul Kumar, Student, Sharda University, Greater Noida, Uttar Pradesh
Pradeep Kumar Mishra, Assistant Professor, Sharda University, Greater Noida, Uttar Pradesh
Harsh Jha, Student, Sharda University, Greater Noida, Uttar Pradesh
Aman Raj, Student, Sharda University, Greater Noida, Uttar Pradesh
Nishat Fatima, Student, Sharda University, Greater Noida, Uttar Pradesh

An intrusion Detection System (IDS) is defined as a device or software program that monitors network or system activities and detects if a dangerous activity is taking place. The rapid growth and use of the internet raise concerns about how to communicate and protect digital information securely. In today's world, hijackers use various forms of attack to obtain valuable information. Many intrusion detection techniques, methods, and algorithms help detect such multiple attacks. The main purpose of this paper is to provide a comprehensive study of the access, the types of access methods, the types of attacks, different tools and techniques, research needs, challenges, and ultimately the development of the IDS Research Tool Tool.

Keywords: Intrusion Detection Machine, Need, Form of IDS, Detection Strategies, Functioning of IDS, Components, Software-Based IDS, Equipment of IDS

Read Full Paper · Download PDF · Back to index

---

28 Employee management system using spring boot and react JS

Paper ID V8I2-1252 · Pages 156-158 · Computer Science

Alluri Harshika, Student, Gandhi Institute of Technology and Management, Visakhapatnam, Andhra Pradesh

In this era of technological developments, people tend to use more sophisticated data management with good performance. Web Pages are the face of the Internet, which helps users to access information across the Internet. Web Pages are made by developing them using various tools and technology stacks like HTML defines the structure, CSS decorates the structure, JavaScript Enables us to have Dynamic Web Pages or Applications, One of the famous stacks which are put to usage for decades is the JEE of Java and Spring with Spring Boot. Therefore these latest technologies named Spring Boot and React are playing a very prominent role in managing the data. Sprint Boot is considered a lightweight framework and helps in retrieving and storing the data with less complexity. React JS is extremely competent and handles dependencies. Our model helps in managing employees' data in a database with Sprint boot as backend and react JS as front end. Axios are used to connect the frontend with the backend.

Keywords: Spring Boot, React JS, Axios

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

29 The Classic Launcher Two-Wheeler Showroom Android Application

Paper ID V8I2-1238 · Pages 159-164 · Computer Science And Engineering

Sakshi Mahalle, Student, P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra
Shivani Dahake, Student, P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra
Bhagyashri Ghatol, Student, P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra
Renu Ingle, Student, P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra
Vaishnavi Khandekar, Student, P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra
Sunpreet Kaur Nanda, Assistant Professor, P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra
Vaishali Bhagat, Assistant Professor, P. R. Pote Patil College of Engineering and Management, Amravati, Maharashtra

The Classic Launcher is a bike display area android application, which can deal with all client subtleties carefully. Individuals are dealing with issues due to the disconnected framework like adjusting dates get due, likewise deal with issues while buying the vehicle. Till the current ten years, there isn't an android application for the bike display area. Help individuals by saving their time, and get their decision vehicle with shading, the frill is likewise accessible on the web. So this application helps in buying vehicles, don't bother keeping page receipt, save individuals time with pick and drop home assistance, online accessible 24*7.

Keywords: Two-Wheeler, Application, Android, Showroom

Read Full Paper · Download PDF · Back to index

---

30 DSACSS: Deep Learning-based spectrum allocation with cooperative spectrum sensing for cognitive WSNs

Paper ID V8I2-1217 · Pages 165-173 · Wireless Sensor Networks

Vidya E. V., Research Scholar, Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka
B. S. Shylaja, Professor, Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka

The incorporation of intelligence into wireless sensors is a contemporary paradigm for boosting the effectiveness of wireless sensor networks (WSNs) and the effective use of the radio frequency spectrum. The existing traditional distribution of radio frequencies leads to coexistence issues or resource underutilization. Cognitive sensors with adjustable spectrum sharing might be used to solve this problem. In this field, spectrum management includes spectrum sensing and allocation. Several techniques have been developed to address these issues but complexity and throughput remain a challenging tasks for these networks. In this work, these issues have been addressed and developed a combined approach for spectrum sensing, spectrum allocation, and cluster head selection to improve the overall spectrum utilization and improve the energy utilization. Moreover, the proposed scheme also adapts the deep learning scheme to identify the spectrum of information based on historical patterns. The comparative analysis shows that the proposed approach shows better spectrum detection performance in comparison with KMeans, GMM, KNN, DAG-SVM approaches.

Keywords: Spectrum Sensing, Clusterhead Selection, Cognitive Radio Networks, Deep Learning

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

31 Snowflake Internship/Training Project Report

Paper ID V8I2-1262 · Pages 174-209 · Snowflake

Y. Swetha, Student, Gandhi Institute of Technology and Management, Visakhapatnam, Andhra Pradesh
Dr. G Sandhya Devi, Guide, Gandhi Institute of Technology and Management, Visakhapatnam, Andhra Pradesh

Snowflake is a SaaS-based data warehouse (DWH) platform that runs over an AWS or MS Azure cloud infrastructure. (You might hear this called data warehouse as a service). Unlike other warehouse solutions, Snowflake utilizes an enhanced ANSI-compliant SQL engine that is designed to work solely on the cloud.

Keywords: Snowflake, Secure Data Share, Time Travel, Dynamic Data Masking, Loading Data into Table using Web User Interface, Roles and Privileges

Read Full Paper · Download PDF · Back to index

---

32 Assessment of Groundwater Quality for Drinking and Irrigation in Watershed Boundary-Bachannapet Region, Jangaon District, Telangana State, India

Paper ID V8I2-1247 · Pages 210-217 · Hydrogeochemistry And Groundwater Quality

MD. Ameena Begum, Research Scholar, Osmania Univerity, Hyderabad, Telangana
J. Ratnakar, Professor, Osmania Univerity, Hyderabad, Telangana

A of total forty samples were collected and analyzed for major ion chemistry of the groundwater quality and its suitability for drinking as well as irrigation purposes. The pH ranges from 7.76-9.26 and 7.45-8.68 indicating the water is slightly alkaline condition. TDS ranges from 95-655 mg/l and 147-1184 mg/l during pre and post monsoon season. Total Hardness (TH) ranges from 95-655 mg/l and 88-510 mg/l; Chloride ranges from 28-877 mg/l and 22-706 mg/l during pre and post season respectively. The majority of the samples are suitable for domestic purposes due to low to medium hardness, however few samples are described as very hard and unsuitable for domestic, drinking and irrigation purposes. Various indices like Salinity Index, Sodium Absorption ratio (SAR), Kelly’s ratio (KR), Permeability Index (PI) and Water Quality Index (WQI) are used to classify groundwater and surface water for drinking as well as irrigation purposes. Besides this, Piper, Wilcox, and Gibb’s plots were studied for geochemical controls and Hydrogeochemistry of groundwater.

Keywords: Water quality Index, SAR, KR, PI, Drinking and irrigation

Read Full Paper · Download PDF · Back to index

---

33 Predicting the power of Combined Cycle Power Plant

Paper ID V8I2-1259 · Pages 218-221 · Computer Science &amp

Gopi Edimudi, Student, Jain (Deemed-to-be University), Bengaluru, Karnataka
Katika Arshad, Student, Jain (Deemed-to-be University), Bengaluru, Karnataka
Mohammed Muzammil, Student, Jain (Deemed-to-be University), Bengaluru, Karnataka

With the rising share of renewables in the energy mix, there is a need for alternative flexible power capacity to mitigate its intermittency. The emerging role of the aggregator is important in untapping the potential of new flexibility sources. An aggregator bundles the flexibility of distributed generation and demand response, and

© 2022, IJARIIT.COM All Rights Reserved

offers the collective resources to wholesale electricity markets. This technical aggregation is referred to as a Virtual Power Plant (VPP). The main aim of this paper is to work towards a model to estimate flexibility characteristics of aggregates of DR (demand response) and DG (distributed generation) to better provide smart grid services from those aggregates in existing and future wholesale markets. This knowledge is the missing connection to ensure capabilities of real-time response into energy markets with a fixed time control loop. Traditionally this has been done using detailed information on device makeup of a virtual power plant (VPP), i.e with detailed knowledge of flexible device state and their performance capabilities. This low level detailed knowledge requirement presents barriers such as performance and security of private information. Therefore, this paper will investigate the applicability of machine learning techniques using only currently available market information to black box estimate aggregate flexibility characteristics, specifically capacity available during run-time and longevity, the amount of time a power deviation can be maintained.

Keywords: Predicting the Power of CCPP, Machine Learning

Read Full Paper · Download PDF · Back to index

---

34 Review of image segmentation techniques

Paper ID V8I2-1281 · Pages 222-224 · Information Technology

Rohan More, Student, Patkar Varde College, Mumbai, Maharashtra

Image segmentation is considered to be one of the most important image processing processes. Image segmentation is the process of dividing or partitioning an image into parts called segments. It's most useful for applications like image compression and object recognition because processing the entire image is inefficient in these cases. As a result, image segmentation is used to separate the image's parts for further processing. Several image segmentation techniques exist, which divide an image into multiple parts based on image features such as pixel intensity value, color, texture, and so on. The segmentation method is used to categorize all of these techniques. The various image segmentation techniques are reviewed in this paper.

Keywords: Image Segmentation, Edge Detection, Thresholding, Clustering, Region Growing

Read Full Paper · Download PDF · Back to index

---

35 Role of judiciary in Indian economy & economic cost of delay in justice

Paper ID V8I2-1283 · Pages 225-228 · Economics And Law

Dr. Ravikiran Ramanand Garje, Professor, K. C. College, Mumbai, Maharashtra

At present India is said to be the third-largest economy in the world in terms of PPP (Purchasing Power Parity). Our service sector is growing rapidly and contributes around 56 % of the national income. To maintain a high growth rate of national income, our law & order, particularly the judiciary needs to improve then only FDI, FII, trade, and industry will get legal protection to develop. Delay in court cases creates fear in the minds of trade and commerce. The common public is scared to approach the police and judiciary. There is a huge cost to the economy, around 1.5 to 2 % of GDP, due to delays in court cases. Due to the inefficiency of the police and judiciary, people are taking the law into their hands, and the cost to handle such a lawless situation is extremely high in our country. This paper tries to identify such costs and remedies to improve the Indian

© 2022, IJARIIT.COM All Rights Reserved

judiciary.

Keywords: PPP-Purchasing Power Parity, GDP-Gross Domestic Product (National Income), PCI – Per Capita Income, FDI-Foreign Direct Investment, FII-Foreign Institutional Investment, UJPSC-Union Judicial Public Service Commission, SJPSC-State Judicial Public Service Commission

Read Full Paper · Download PDF · Back to index

---

36 Microservices: Architecture, containers, and challenges

Paper ID V8I2-1282 · Pages 229-231 · Information Technology

Rohan Talekar, Student, Patkar Varde College, Mumbai, Maharashtra

Microservices (also known as microservices architecture) is a cloud-native architectural paradigm in which a single application is built of several loosely connected and independently deployable, tested, or developed. The microservice architecture concept says, that you break a big application into small bodies into small services of loosely coupled applications of services. This paper discusses monolithic architecture, service-oriented architecture and microservice architecture, and then container technology. Then move on to microservices challenges.

Keywords: Architecture, Monolithic Architecture, Service-Oriented Architecture (SOA), Microservice Architecture, Container, Challenges of Microservices.

Read Full Paper · Download PDF · Back to index

---

37 Android privacy leakage detection using static analysis

Paper ID V8I2-1275 · Pages 232-235 · Computer Science

Harsh Jha, Student, Sharda University, Greater Noida, Uttar Pradesh
Manish Verma, Professor, Sharda University, Greater Noida, Uttar Pradesh
Prashant Gautam, Student, Sharda University, Greater Noida, Uttar Pradesh

The quantity of Android apps has grown explosively in re- cent years and the wide variety of apps leaking non-public facts has additionally grown. it's far necessary to make sure all of the apps are not leaking non-public information before putting them to the app markets and thereby a privateness leaks detection tool is wanted. We endorse a static taint evaluation approach that leverages the control-flow graph (CFG) of apps to locate privateness leaks among Android apps. We tackle three troubles related to inter-element verbal exchange (ICC), the lifecycle of components, and the callback mechanism making the CFG imprecision. To bridge this gap, we ex- implicitly join the discontinuities of the CFG to provide a unique CFG. based totally on the ideal CFG, we goal at offering a taint evaluation method to locate intra-factor privateness leaks, inter-factor privacy leaks, and additionally inter-app privacy leaks.

Keywords: Static Analysis, Taint Analysis, Privacy Leaks, ICC, CFG

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

38 Analytical study of tools for Big data analytics

Paper ID V8I2-1268 · Pages 236-238 · Information Technology

Shubham Milind Lokhande, Student, Patkar Varde College, Mumbai, Maharashtra

Due to digitalization, there is a rapid growth of data sets in different forms. When there are instances of a large and complex amount of data and the traditional data processing techniques are failing to deal with these types of complex data, this data is known as Big Data. For any decision-making in sectors like advertising, government agencies, medical research, and such we come across big data. The given data for the research has to be processed using various techniques of data analytics which is known as Big Data Analytics. These techniques are used on structured or unstructured available data which are not possible to be processed using traditional methods. In this paper, I'll be discussing some of the major utilization of big data analytics by comparing different big data tools used for validating the data.

Keywords: Data Sets, Big Data Validation, Big Data Analytics, Structured And Unstructured Data, Semi-Structured Data

Read Full Paper · Download PDF · Back to index

---

39 Culture management in merger & acquisition: A literature review

Paper ID V8I2-1270 · Pages 239-245 · Hr

Inshu Rani, Student, Universal Business School, Karjat, Maharashtra
Pratiksha Barve, Student, Universal Business School, Karjat, Maharashtra
Sudisha Biswas, Student, Universal Business School, Karjat, Maharashtra

Organizations nowadays are merging or acquiring smaller firms to expand their presence everywhere, for example, Walmart acquired Flipkart to enter and expand in the Indian market, Tata acquired Air India to garner space in Aviation Industry, etc. When no of the organization decides to merge how does culture play a role in the whole process or what effect does it have on the process or afterward on the performance of the organization, we are trying to understand that through this paper. We looked into various researches done on this subject to get a good understanding of cultural issues that organizations face in Mergers and Acquisitions. While reviewing these research papers we found that most organizations face a negative impact on the performance due to cultural issues and in some cases, it even results in failure.

Keywords: Acquisition, Employees, Integration, Mergers, and Organization Culture

Read Full Paper · Download PDF · Back to index

---

40 Cloud computing and its research challenges

Paper ID V8I2-1288 · Pages 246-247 · Cloud Computing

Parth Khajgiwale, Student, International Institute of Information Technology, Pune, Maharashtra

Cloud computing is the on-demand accessibility of computer system resources, especially data storage and calculating power, without primary active operation by the user. Large clouds frequently have functions distributed over multitudinous locales, each location being a data center. Although cloud computing is easing the Information Technology industry, the research and development in this arena are yet to be palatable. My

© 2022, IJARIIT.COM All Rights Reserved

contribution to this paper is an advanced survey centering on cloud computing conceptions and most developed research outgrowths. This paper provides a better understanding of cloud computing and identifies significant research outcomes in this accelerating field of computer science.

Keywords: Cloud Computing, Data Encryption, Data Center, Cloud Data Management, Cloud Security

Read Full Paper · Download PDF · Back to index

---

41 Experimental investigation on steel fiber reinforced concrete with partial replacement of fine aggregate by copper slag

Paper ID V8I2-1291 · Pages 248-253 · Civil Engineering

Kishore M., Student, SNS College of Technology, Coimbatore, Tamil Nadu
Anurekha G. S., Assistant Professor, SNS College of Technology, Coimbatore, Tamil Nadu

In many developing countries, concrete is the most extensively used "manmade" material for construction in all types of civil engineering projects. Concrete is also an environmentally friendly material, which is more important in locations where environmental awareness is expanding. Researchers have been attempting to increase the quality, strength, and durability of materials against adverse exposures for decades. Concrete made of Portland cement is regarded to be a fragile substance. Unreinforced concrete cracks and fails when subjected to tensile pressures. Steel reinforcement has been utilized to solve this problem since the mid-nineteenth century. The reinforcing steel is expected to carry all tensile loads in a composite system. When fibers are added to the concrete mix, the composite system's tensile load capacity is increased as well. In reality, research has shown that fiber reinforcing can improve the final strength of concrete. The goal of this study article is to employ solely fibers. On 150x150x150mm cube and 150mmx300mm cylindrical specimens, the experimental investigation consisted of casting and compression testing using a test method that gave the complete compressive strength, split tensile test with and without steel fiber of volume fractions 0,1, and 1.5, percent of 0.75mm diameter of the aspect ratio of 80 on ordinary Portland cement concrete and replacing fine aggregate with copper slag of 40% and 60%. Based on the findings, higher crack resistance and improved tensile strength will be discovered. At 7 days, 21 days, and 28 days after curing, the proposed sample will be analyzed. These findings will reveal if the FRC is suitable for proper confinement in structures subjected to high loads such as seismic and impact loads.

Keywords: Confinement, Mechanical Properties, Steel Fiber, Transverse Reinforcement

Read Full Paper · Download PDF · Back to index

---

42 Supply chain of electric vehicle and batteries

Paper ID V8I2-1294 · Pages 254-259 · Operations

Preet Bhatt, Student, Universal Business School, New Delhi, Delhi
Ankit Srivastava, Student, Universal Business School, New Delhi, Delhi
Sachinkumar Mishra, Student, Universal Business School, New Delhi, Delhi

One of the key aspects of the Electric Vehicle Supply Chain that distinguishes it from Internal Combustion Engine suppliers is that vehicles powered entirely or partially by electricity require little maintenance, have a

© 2022, IJARIIT.COM All Rights Reserved

simple mechanical design, and are difficult to mass-produce. It is the fastest technology that runs on charging batteries rather than fossil fuels, and it is known to be environmentally and financially favourable. It is therefore extremely important to continue to grow in this field. EV, like most revolutionary mechanisms, has produced a potential development that comes with its own set of difficulties and opportunities. While it is still reforming its area and the industry as a whole, it is evaluating the market's progress for developers. Concerns about air quality and the scarcity of gasoline are boosting interest in electric vehicles (EVs). This integrative assessment assesses the global EV battery supply chain raw material and identifies potential concerns. Authorized government authorities are generally moving to electric vehicle batteries in an effort to reduce gas emissions from transportation, which offers a considerable reduction in carbon emissions when compared to ignition engine vehicles.

Keywords: Batteries, Components, Supply Chain, Emissions

Read Full Paper · Download PDF · Back to index

---

43 Design, Developement and Testing of Eclipse Drive Train for Wind Turbine

Paper ID V8I2-1191 · Pages 260-265 · Engineering

Nilam Mali, Student, JSPM's Imperial College of Engineering and Research, Pune, Maharashtra
Dr. Sarang P. Joshhi, Professor, JSPM's Imperial College of Engineering and Research, Pune, Maharashtra

A Wind energy conversion system consist of a number of components to transform the wind energy to electrical energy.

Keywords: Eclipse Gearbox, Realiblity, Speed Ratio, Traditional Gearbox, Wind Turbine

Read Full Paper · Download PDF · Back to index

---

44 Automatic room temperature controller using Arduino in Tinkercad

Paper ID V8I2-1310 · Pages 266-268 · Internet Of Things

Surendhiran Tamilalagan, Student, SASTRA Deemed University, Thanjavur, Tamil Nadu

We live in a World of Sensors. You can find different types of sensors in our homes, offices, cars, and so on. A temperature sensor is an electronic device that measures the temperature of its environment and converts the input data into electronic data to record monitor or signal temperature changes. Temperature sensors measure the amount of heat energy or even coldness that is generated by an object or system, allowing us to “sense” or detect any physical change to that temperature producing either an analog or digital output.

Keywords: Arduino, Liquid Crystal Display, Light Emitting Diode, Tinkercad, etc.

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

45 Impact of demographic factors and risk tolerance on investors of Raipur city, Chhatisgarh

Paper ID V8I2-1312 · Pages 269-282 · Finance

Tanishka Agrawal, Student, Jain University, Bengaluru, Karnataka
Jhalak Jain, Student, Jain University, Bengaluru, Karnataka

The present study tries to find out the impact of demographic factors and risk tolerance that plays a crucial role in investors' decision-making. The evolution of behavioral finance has brought about a revolution in the finance industry and risk is an inevitable part of this industry. The concept of 'risk tolerance ' means the ability of an investor to take risks while investing in various investment options. There are a lot of investment options available to investors while some like to invest in gold and real estate others prefer to invest in equity markets and these decisions are highly impacted by psychological and behavioral factors. Demographic factors such as age, gender, income class, occupation and investment experience, and risk tolerance have a deep impact on an investor's decision-making. Applying structural pivot analysis to data collected from 200 respondents of Raipur city, Chhattisgarh we found a significant relationship between certain demographic factors and risk tolerance. The factors such as occupation, gender, and income class show a positive correlation between risk tolerance and investor behavior while others, such as age and investment experience show a negative correlation between risk tolerance and investor behavior.

Keywords: Investment Decision, Demographic Factors, Behavioral Finance, Risk Tolerance

Read Full Paper · Download PDF · Back to index

---

46 Technical and environmental analysis of SHP in RET Screen: A case study of power production at Machai/Mardan

Paper ID V8I2-1257 · Pages 283-287 · Electrical Power

Nageen Jalal, Research Scholar, NED University of Engineering and Technology, Karachi, Pakistan
Dr. Anjum Khalid, Professor, NED University of Engineering and Technology, Karachi, Pakistan

Pakistan's economy is directly affected by Power conjuncture causing energy failure on regular basis for long duration and shut down of industrial units causing social disorganization. Because of population growth and need in economy advancement it's estimated that national electricity demand will continue to grow at 10 % per annum. The environmental impacts associated with hydroelectric developments that incorporate water storage (typically larger in size) are mainly related to the creation of a water storage reservoir. The RET Screen International Clean Energy Project Analysis Software addresses a number of renewable energy electricity generating technologies. The four most widely applied technologies are Wind energy, photovoltaic, small hydro and biomass combustion power technologies. The energy available from a hydro turbine is proportional to the quantity of water passing through the turbine per unit of time and the vertical difference between the turbine and the surface of water at the inlet (i.e. head).

Keywords: Small Hydro, Hydro Turbine, Shutdown, Industrial Units

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

47 Design of feedforward controller for fast controllability of active power of VSC-connected to weak AC network

Paper ID V8I2-1272 · Pages 288-290 · Electrical Power

Nageen Jalal, Research Scholar, University of Engineering and Technology, Peshawar, Pakistan

The installation of the Feedforward controller on the sending end of the Weak Ac network and its impact on the controllability of Active power and voltage droop control is analyzed. Better disturbance rejection performance of voltage droop control can be achieved through Fast power controllers. It will sense fault

Keywords: Feedforward Controller, Voltage Soirce Converter

Read Full Paper · Download PDF · Back to index

---

48 Research proposal- Small Hydropower Impact on-Grid Stability -A case study at Mardan II grid and Relevant 132KV Network

Paper ID V8I2-1231 · Pages 291-304 · Electrical Power

Nageen Jalal, Independent Researcher, NED University of Engineering and Technology, Karachi, Pakistan

Load Flow studies and dynamic simulation of 132 kV network by interconnecting 2.6 MW to the Network and its short circuit analysis

Keywords: Nil

Read Full Paper · Download PDF · Back to index

---

49 Research thesis- Load Flow Studies and Dynamic Simulation of Power System: A case study of interconnection for new Run-of-River Hydropower Plant at Machai with National Grid

Paper ID V8I2-1232 · Pages 305-373 · Electrical Power

Nageen Jalal, NED University of Engineering and Technology, Karachi, Pakistan

Load Flow studies and Dynamic simulation of 132 kV Network using PSSE SOFTWARE by interconnecting new run of river renewable energy that is Hydropower plant at machair with the national grid

Keywords: Dynamic Simulation, Steady State Stability Analysis That Is Load Flow Studies, Renewable Energy

Read Full Paper · Download PDF · Back to index

---

50 Voice control home automation using adafruit io and IFTTT

Paper ID V8I2-1318 · Pages 374-377 · Iot

Surendhiran Tamilalagan, Student, Shanmugha Arts, Science, Technology and Research Academy, Thanjavur, Tamil Nadu

Automation plays a key role in human life. Home automation allows us to control household electrical appliances like lights, doors, fans, AC, etc. It also provides home security and emergency system to be

© 2022, IJARIIT.COM All Rights Reserved

activated. Home automation not only refers to reducing human efforts but also energy efficiency and time-saving. The main objective of home automation and security is to help handicapped and old-aged people who will enable them to control home appliances and alert them in critical situations.

Keywords: Adafruit, Arduino, Bluetooth, IFTTT, etc.

Read Full Paper · Download PDF · Back to index

---

51 Vison-based human activity recognition

Paper ID V8I2-1320 · Pages 378-381 · Computer Science Engineering

M. Madhusudhan, Assistant Professor, CMR Technical Campus, Hyderabad, Telangana
B. Manish Kumar, Student, CMR Technical Campus, Hyderabad, Telangana
P Rohit, Student, CMR Technical Campus, Hyderabad, Telangana
V. Sri Ram Reddy, Student, CMR Technical Campus, Hyderabad, Telangana
V. Sai Chandana, Student, CMR Technical Campus, Hyderabad, Telangana

There have been substantial advances in HAR (Human Activity Recognition) in the past several years due to the advancement of the IoT (Internet of Things). HAR may be used in a range of contexts, including elder care, surveillance systems, and anomalous behavior detection. Different machine learning techniques have been used to anticipate human actions in a particular circumstance. Feature engineering techniques, which may pick an ideal collection of features, have outperformed typical machine learning techniques. Deep learning models, like CNN (Convolutional Neural Networks), on the other hand, are known to extract features and minimize computing costs automatically. We employ the CNN model for predicting actions from the Weizmann Dataset in this article. To extract deep image features and trained machine learning classifiers, transfer learning is used in particular. We found that VGG-16 has an accuracy of 96.95 percent in our experiments. We also found that VGG-16 outperformed the rest of the CNN models that were used in our experiments.

Keywords: Convolutional Neural Network, Activity Recognition, Deep Learning

Read Full Paper · Download PDF · Back to index

---

52 Hydrochemical analysis and assessment of groundwater quality in and around Yadadri district, Telangana, India.

Paper ID V8I2-1315 · Pages 382-389 · Hydrogeochemistry

Bharath Kumar Punna, Research Scholar, Osmania University, Hyderabad, Telangana
Botla Amarender, Research Scholar, Osmania University, Hyderabad, Telangana
K. Praveen Reddy, Research Scholar, Osmania University, Hyderabad, Telangana
G. Prabhakar, Professor, Osmania University, Hyderabad, Telangana

This study looks at the types of groundwater and water quality in a semi-arid watershed in southern India that includes 35 settlements. In both seasons, cation concentrations (Na+> Ca2+> Mg2+> K+) and anions (HCO3- > Cl > NO3-> SO 2-> PO43-) follow a consistent pattern across most of Peninsular India. The sodium-bicarbonate-chloride (Na+-HCO3-Cl-) classifies the groundwater. The influence of natural sources on groundwater composition across the watershed's communities is demonstrated by a Pearson correlation study

© 2022, IJARIIT.COM All Rights Reserved

of important ions. The water composition of these communities, according to Gibb's plot, is the result of rock and water interaction during infiltration and aquifer storage. Due to a severe water deficit in this region, particularly during the pre-monsoon season, deep bore wells have been drilled for both home and agricultural purposes. All of the physical dimensions and chemical contents exceed the World Health Organization (WHO) and Bureau of Indian Standards (BIS) permissible limits, rendering it unsafe for drinking, domestic, or agricultural use. Around 54 percent of groundwater samples, regardless of season, are found to be unfit for irrigation (KR 1). During the post-monsoon season, groundwater from villages near the local river (Bukleru river) is only acceptable for irrigation (KR>1).

Keywords: Groundwater Quality, Piper, Gibb's, Drinking And Irrigation

Read Full Paper · Download PDF · Back to index

---

53 Visitor information management and analysis system: Neeri-pass

Paper ID V8I2-1316 · Pages 390-392 · Computer Science

Barkha Ramteke, Student, G. H. Raisoni Institute of Engineering and Technology, Nagpur, Maharashtra
Dr. Sonali Ridhorkar, Professor, G. H. Raisoni Institute of Engineering and Technology, Nagpur, Maharashtra

The visitor entry system is designed to close the visitor registration center and visitor information management services, it will be able to speed up the visitor registration process, determine who is on the premises after the meeting and inform the system. This is a review paper in which the system solves the problem of appointments and it electively captures all-relevant information about the visitors and that information is recorded in the centralized database server, which provides data management and manipulation through searching for future purposes in the organization. The benefits of the Visitor Gate pass Management System are enhancing the level of security enforced on-premises, providing an organized view of visitor records, and reducing the time spent on managing visitor information.

Keywords: Gate-Pass, Visitor Information, Centralized Database Server, Data Management, Data Manipulation

Read Full Paper · Download PDF · Back to index

---

54 Solar power plant with MPPT algorithm

Paper ID V8I2-1314 · Pages 393-396 · Academic Project

M. Divya, Assistant Professor, Andhra University College of Engineering for Women, Visakhapatnam, Andhra Pradesh

This Document presents the Solar Power plant with the MPPT algorithm. The increase in usage of Electrical energy has encouraged the growth of different types of conventional power generating systems like hydroelectric, thermal, wind, solar, nuclear, geothermal, etc. In this project, we developed solar panels with the MPPT algorithm to operate the photovoltaic modules in a manner to extract the maximum power from the system. This method can increase the tracking efficiency.

Keywords: Renewable Energy System, Solar PV Energy, MPPT Algorithm, Interfacing of MPPT

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

55 Leveraging a convolutional neural network for developing a hand-written text recognition system

Paper ID V8I2-1319 · Pages 397-401 · Computer Vision

Likith Pulluri, Student, Sharda University, Greater Noida, Uttar Pradesh
Yashwanth Konakanchi, Student, Sharda University, Greater Noida, Uttar Pradesh
Divya Prabha, Student, Sharda University, Greater Noida, Uttar Pradesh
Asima Nayak, Student, Sharda University, Greater Noida, Uttar Pradesh
Pradeep Kumar Mishra, Professor, Sharda University, Greater Noida, Uttar Pradesh

The explication revolving around the digital outlook of Hand-written Text has been carried out widely with the upsurge of Technological Advancements in the field of Artificial Intelligence. Automation in daily chores has made human life more consistent and yet stable. Machine Learning and Deep Learning modus operandi has been actuated for contemplating the automated outlook. Hand-written Text Recognition has been a well-scrutinized domain wherein the incorporation of different paradigms of learning has been elucidated. The escalation into the digitization of almost everything necessitates the prevalence of the same in assuaging the Text Recognition System as well. In this articulation, we've consummated Convolutional Neural Networks (CNNs) i.e., 03-Layered, 04-Layered, and 05-Layered Convolutional Neural Networks (CNNs) which are trained over Hand-written Characters which include Alphabets (A-Z), Digits (0-9) and widely utilized Symbols and thereby detecting the Text from a Dataset of diverse Hand-written words consisting of Names and Surnames. The proposed Hand-written Text Recognition System is structured in the Offline method, as the scarcity of proficient outcomes revolves around it when compared to Online prospects. The proposition also gave us a comparative insight into the impact of layers in models. The efficacy we achieved was phenomenal, which gave us a potent resolution for contemplating it in real-time.

Keywords: Convolutional Neural Network (CNN), Hand-Written Text Recognition, Optical Character Recognition (OCR), Deep Learning

Read Full Paper · Download PDF · Back to index

---

56 Analytical and Systematic Study of Artificial Neural Network

Paper ID V8I2-1321 · Pages 402-405 · Artificial Intelligence

Shreyas Barge, Student, Keraleeya Samajam Dombivli (East), Dombivli, Maharashtra.

© 2022, IJARIIT.COM All Rights Reserved

Artificial Neural Network may be a neural network motivated by the biological neural network where numbersof neurons are interconnected with each other. The neurons in artificial neural network are operating andarranged in such a way that they invigorate the basic construction of the neurons within the human cerebrum.the basic rationale behind the factitious neural network is to implement the structure of the biological neuron inan exceedingly way that the regardless of the function that the human brain perform with the help of biological neural network, that thusly will the machines and frameworks can likewise perform with the help of artificial neural network. This paper gives a concise outline of a man-made neural network with its working, architectures, and general organization, and so forth. This paper additionally express some advantage and disadvantage , application of the artificial neural network in some most vital areas like image processing, signal processing, pattern recognition, function approximation, forecasting supported the past data and a few more.

Keywords: Artificial Neural Network, Feed Forward Network, Feedback Network, Activation Functions, Artificial Neuron.

Read Full Paper · Download PDF · Back to index

---

57 Mobile app for location-based offers

Paper ID V8I2-1324 · Pages 406-407 · It

Saloni Yadav, Student, Datta Meghe College of Engineering, Navi Mumbai, Maharashtra
Darshana Hindole, Student, Datta Meghe College of Engineering, Navi Mumbai, Maharashtra
Ashwini Waje, Student, Datta Meghe College of Engineering, Navi Mumbai, Maharashtra

This application is based on offers based on restaurants deals.

Keywords: Offers, Restaurants, Application, Location

Read Full Paper · Download PDF · Back to index

---

58 Housing policy in developing economies: The importance of regulation

Paper ID V8I2-1308 · Pages 408-415 · Real Estate

Adit Jacob, Research Scholar, Independent Researcher

The financialization of housing is defined as the phenomenon in which housing is treated as a commodity such that it is a vehicle of wealth and investment rather than a social good and basic human right. While the financialization of housing itself can be seen as the product of financial innovation and economic development, it has also become an object of speculation and irrational exuberance in the form of market bubbles and social friction, which excludes disadvantaged members of society from benefiting from this expansive growth, oftentimes marginalizing these communities further. This paper aims to assess the importance of regulation and housing policy in developing economies as a means of controlling the financialization of real estate markets.

Keywords: Economics, Real Estate, Financialization, Housing Markets, Regulation, Developing Economies

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

59 Exploring challenges in implementing hybrid learning in cycle two public girls' schools in the United Arab emirates

Paper ID V8I2-1331 · Pages 416-423 · Education

Wadha Saif Ahmed, American University of Ras Al Khaimah, Ras Al-Khaimah, United Arab Emirates

Purpose: The challenge of integrating cooperative learning in online learning environments presents challenges for both learners and educators. This mixed-methods study will explore Implementing Hybrid Learning in Cycle Two Public Schools in the UAE. The focus of the study will be on the challenges teachers face in delivering effective online instruction, in hopes of discovering ways in which teachers may more effectively plan and implement collaborative learning in online learning environments. Design Methodology approach: Research will take APA style. The survey will provide the basis for developing in-depth questions to explore both the online learning environment and collaborative learning more fully. The survey will be published through various technology platforms. Upon completion of the surveys, the results will be coded and analyzed using Statistical Program for Social Sciences (SPSS). The researcher will then conduct targeted interviews to gain more information. Findings: Teachers Need More Training, Motivation for Training, Fear to Change, Everything Takes Time, New Skills, New Practices, New Strategies, New Technologies, and New Learning Styles, Blended Learning as Efficient Tool to Address Current Education Problems, Blended Learning Cannot Be Changed by an Online Learning, Student Motivation Suffers from Too Much Online Learning, Blended Learning Problems Are Technical Issues and Increasing Role of Parents in the Learning Process. Originality: There are a few studies that examine the exploring challenges in hybrid learning. Moreover, most studies focus on challenges and collaboration between students. Finally, there is no study has been conducted on the challenges in hybrid learning in C2 public girls' schools in the United Arab Emirates.

Keywords: Challenges, Collaborative Learning, Empowering learners, Building communities, Active Learning, Proximal Development, Collective Efficacy, Confidentiality, Anonymity, Teachers Need, Motivation, New Skills, New Practices, New Strategies, New Technologies, and New Learning Styles, Blending learning.

Read Full Paper · Download PDF · Back to index

---

60 Low-cost approach towards the design and development of lower limb exoskeleton

Paper ID V8I2-1329 · Pages 424-431 · Engineering

Ramendra Verma, Student, Delhi Technological University, New Delhi, Delhi
Vishnu Dev Singh, Student, Delhi Technological University, New Delhi, Delhi

From the time the human race has evolved many have faced the difficulty in walking, standing, balancing and so on. About 13.7 percent of the world's population have a motor disability with serious difficulty in walking or painting balance making them among the largest minority groups on earth. Through this paper, we will be going to discuss the earlier research and the functions of the exoskeleton. The paper provides an overview of the hardware, sensors, actuators, and control system for the performance of the exoskeleton. 3D prototype of the model is designed and the simulation are performed to achieve a low cost exoskeleton for the medical and defence purposes.

© 2022, IJARIIT.COM All Rights Reserved

Keywords: Exoskeleton, EMG Sensors, Robotics

Read Full Paper · Download PDF · Back to index

---

61 Water demand prediction using the KNN algorithm

Paper ID V8I2-1334 · Pages 432-434 · Computer Science Engineering

Sourabh Kattimani, Student, Dayananda Sagar Academy of Technology and Management, Udayapura, Karnataka
Nethra H. L., Assistant Professor, Dayananda Sagar Academy of Technology and Management, Udayapura, Karnataka
Bhuvana B., Student, Dayananda Sagar Academy of Technology and Management, Udayapura, Karnataka
Shashikala C. R., Student, Dayananda Sagar Academy of Technology and Management, Udayapura, Karnataka
Sachin G. C., Student, Dayananda Sagar Academy of Technology and Management, Udayapura, Karnataka

Many factors influence irrigation water requirements in an agriculture field. those factors are the age of the plant, type of soil, temperature, level of sunlight, and water needed. Despite the multiple solutions proposed, still the quantity of water overflood and underfloor in the agriculture felid. The artificial influence on irrigation requirement should be thought of as an important impact factor, considering the requirement of water, the technology can help in preserving a large quantity of water in the agriculture felid. development of complex and elaborate forecasting methods such as artificial neural networks (ANNs) can be costly to develop and implement with the limited recourses available.

Keywords: Crop Water Demand, Forecast, Crop To Crop Modeling, KNN Modeling, Water Utility Demand Prediction

Read Full Paper · Download PDF · Back to index

---

62 Assessment of groundwater quality with special emphasis on fluoride contamination in and around Devarakonda Mandal, Nalgonda district, Telangana State, India

Paper ID V8I2-1313 · Pages 435-440 · Groundwater Quality And Fluoride Contamination

Lavudi Neela, Research Scholar, Osmania Univerity, Hyderabad, Telangana
B. Linda Prabhakar Babu, Professor, Osmania Univerity, Hyderabad, Telangana

© 2022, IJARIIT.COM All Rights Reserved

Devarakonda, located 50 kilometers west of Nalgonda, is a peninsular gneissic complex with a lot ofagricultural activity and past increasing urbanization. Major ions pH, EC, TDS, Ca, Mg, TH, Na, K, CO3, HCO3, Cl,NO3, SO4, and F were all measured in 45 pre-monsoon samples. During the pre-and post-monsoon seasons,fluoride concentrations range from 0.36 to 3.11 mg/l and 0.25 to 2.56 mg/l, respectively. The presence offluoride ions in groundwater samples affected the samples, according to the findings. When compared to theWorld Health Organization's tolerance limit (1.5 mg/l), about 51% and 36% of groundwater samples had higherfluoride levels. The piper trilinear found that Na-Ca-Cl and mixed Ca-Mg-Cl were the most common groundwatertypes. The majority of the area is a rock dominant field, according to Gibb's plot. The study region's waterchemistry is dominated by weathering of feldspar minerals and cation exchange reactions, according tostatistical analysis. According to the principal component analysis majorly groundwater samples are influencedby weathering of silicate group minerals and cation exchange processes, and anthropogenic contribute togroundwater chemistry.

Keywords: Fluoride, Spatial Distribution, PCA Analysis, and in Parts of Devarakonda.

Read Full Paper · Download PDF · Back to index

---

63 Efficacy of Ayurvedic Anti- Hair fall Shampoo (Emami Kesh King Scalp and Hair medicine Anti Hairfall Shampoo) – Hair fall reduction

Paper ID V8I2-1278 · Pages 441-451 · Ayurveda

Dr. G. Gandhimathi, GR Ayurvedic Research Centre, Chennai, Tamil Nadu

Emami Kesh King Scalp and Hair Medicine Anti Hairfall Shampoo contains extracts of various herbs such Amla, Ghritikumari, Lodhra, Haritaki etc. This present study attempts to support the claims made by the above-mentioned product for hair growth, hair fall reduction by 80% and protection from dandruff. Consenting adults (n=30) who were experiencing hair fall and dandruff issues were enrolled in a prospective open-label, phase 4 study. Each of them was provided 2 bottles of the product for the study (60 days) and asked to answer questions regarding product efficacy on a visual analogue scale. The scores were traced on days 0, 15, 30 and 60. Subjects observed an effective reduction in hair fall over 15 days and improvement in hair growth and dandruff signs over 60 days (p

Keywords: Kesh king, Anti Hair fall, Shampoo

Read Full Paper · Download PDF · Back to index

---

64 Efficacy of ayurvedic oil (Advanced Emami Kesh King Scalp and Hair Medicine Ayurvedic Oil) – Hair growth, hair fall reduction and dandruff protection

Paper ID V8I2-1277 · Pages 452-460 · Ayurveda

Dr. G. Gandhimathi, GR Ayurvedic Research Centre, Chennai, Tamil Nadu

Advanced Emami Kesh King Scalp and Hair Medicine Ayurvedic Oil contains potent extracts of various herbs such as Manjistha, Nagkesara, Brahmi, Bhringaraja, etc. This present study attempts to support the claims made by the above mentioned ayurvedic oil for hair growth, hair fall reduction and protection from dandruff. Consenting adults (n=30) who were experiencing hair fall and dandruff issues were enrolled in a prospective open-label, phase 4 study. Each of them was provided 2 bottles of the product for the study (60 days) and

© 2022, IJARIIT.COM All Rights Reserved

asked to answer questions regarding product efficacy on a visual analogue scale. The scores were traced on days 0, 15, 30 and 60. Subjects observed an effective reduction in hair fall over 15 days and improvement in hair growth and dandruff signs over 60 days (p

Keywords: Kesh king, Hair, Dandruff, Ayurvedic oil

Read Full Paper · Download PDF · Back to index

---

65 Efficacy of a topical ayurvedic preparation (Zandu ultra power balm) – relief from cold and associated symptoms

Paper ID V8I2-1271 · Pages 461-466 · Ayurvedic

G. Gandhimathi, GR Ayurvedic Research Centre, Chennai, Tamil Nadu

Zandu Ultra Power Balm is a topical ayurvedic preparation that contains various active ingredients such as Menthol, Gaultheria oil, clove oil, cajeput oil, ajwan satva, etc. This present study attempts to support the product claims made by the above-mentioned (OTC) product for cold and pain relief. Consenting adults (n=30) who were experiencing cold and related symptoms were enrolled in a prospective open-label, phase 4 study. Each of them was provided 1 bottle of the product for the study (7 days) and asked to answer questions regarding product efficacy on a visual analog scale. The scores were traced on days 0, 2, 4, and 6. Subjects observed an effective reduction in cold and congestion over 2 days and a reduction of headache and backache due to cold over 6 days (p

Keywords: Zandu, Common Cold, Pain, Nasal Congestion

Read Full Paper · Download PDF · Back to index

---

66 Advancement in Multimedia Information System Security

Paper ID V8I2-1342 · Pages 467-483 · Multimedia Information System

Pranav Sanjay Patil, Student, Late G. N. Sapkal College of Engineering, Nashik, Maharashtra

© 2022, IJARIIT.COM All Rights Reserved

A multimedia communication system enables multimedia data's generation, storage, management,distribution, receiving, consuming, editing, sharing, and so on. In such systems, there are various securityissues, which must be considered such as eavesdropping, intrusion, forgery, piracy and privacy, etc. Until now,various security solutions for multimedia communication systems have been reported, while few works havesurveyed the latest research advances. This paper gives a thorough review to multimedia information systemsecurity. It introduces a general architecture of multimedia information system, and investigates some securityissues in multimedia information systems. It reviews the latest security solutions such as Digital RightsManagement (DRM), confidentiality protection, ownership protection, traitor tracing, secure multimediadistribution based on watermarking, forgery detection, copy detection, privacy-preserving data mining, secureuser interface, intrusion detection and prevention. Moreover, the paper presents some hot research topics suchas Trusted Computing, steganography, security in network or service convergence, security of content sharingin social networks, privacy-preserving data processing, multimedia forensics and intelligent surveillance inmultimedia information system security. It is expected to benefit readers by providing the latest researchprogress, advising some research directions and giving a list of references about multimedia system security.

Keywords: Multimedia System, Security, Encryption, Authentication, Digital Rights Management, Forensic, Watermark, Biometric, Copy Detection, Data Mining

Read Full Paper · Download PDF · Back to index

---

67 Recognition of objects in Adverse Weather conditions using Dual Subnet Network in Comparison with CNN Network

Paper ID V8I2-1344 · Pages 484-488 · Computer Science And Engineering

K. Pavan Kumar, Student, Annamacharya Institute of Technologies and Sciences, Rajampeta, Andhra Pradesh
K. Bhanu Teja, Student, Annamacharya Institute of Technologies and Sciences, Rajampeta, Andhra Pradesh
B. Deepa, Student, Annamacharya Institute of Technologies and Sciences, Rajampeta, Andhra Pradesh
M. Sagar, Student, Annamacharya Institute of Technologies and Sciences, Rajampeta, Andhra Pradesh
C. Venkata Sai Rakesh, Student, Annamacharya Institute of Technologies and Sciences, Rajampeta, Andhra Pradesh
I. Suneetha Rani, Assistant Professor, Annamacharya Institute of Technologies and Sciences, Rajampeta, Andhra Pradesh

The purpose of this Research work is to Detect objects in Adverse weather conditions using Dual Subnet Network and comparing it with CNN network. Object detection algorithms based on convolutional neural networks have been intensively explored and successfully implemented in numerous computer vision applications during the last half-decade. However, due to poor visibility, recognising things in rainy weather remains a considerable challenge. In this study, we introduce an unique dual-subnet network (DSNet) that can be trained end-to-end and jointly perform three tasks: visibility improvement, object categorization, and object localisation, to handle the object identification problem in the presence of fog. By incorporating two subnetworks: detection and restoration, DSNet achieves complete performance enhancement. RetinaNet is used as a backbone network (also known as a detection subnet) for learning to categorise and find objects. The restoration subnet shares feature extraction layers with the detection subnet and uses a feature recovery (FR) module to improve visibility. Our DSNet outperformed many state-of-the-art object detectors and combination models between dehazing and detection methods while maintaining a high speed, obtaining 50.84 percent

© 2022, IJARIIT.COM All Rights Reserved

mean average precision (mAP) on a synthetic foggy dataset that we composed and 41.91 percent mAP on a public natural foggy dataset (Foggy Driving dataset).

Keywords: DualSubnet Network, CNN Network, Foggy data set, Backbone Network, Enhancement, Feature Extraction

Read Full Paper · Download PDF · Back to index

---

68 Image caption generator using CNN and LSTM

Paper ID V8I2-1280 · Pages 489-495 · Ai

Julu Basnet, Student, Sharda University, Greater Noida, Uttar Pradesh
Supriya Kumari, Student, Sharda University, Greater Noida, Uttar Pradesh
Mohit Rathore, Student, Sharda University, Greater Noida, Uttar Pradesh
Dipanshu, Student, Sharda University, Greater Noida, Uttar Pradesh

The realm of technology in the field of AI is progressing rapidly these days. Many research-based projects have been carried out and are still being carried out, thanks to this advancement. Many studies have been done in the field of AI, and image caption creation is also a component of this research that is based on deep learning. There are a variety of activities that must be completed during the image captioning process, including identifying the items in the photographs, determining their semantic link, and translating the backdrop scene into the relevant phrases. The picture's information is generated automatically in artificial intelligence, which also includes computer vision and natural language processing. In order to assess the model's fluency and accuracy, the flickr8k dataset of 8000 photographs is used to describe the images. This shows that the model is appropriately captioning the photos.

Keywords: Image Captioning, CNN, Natural Language Processing Tool, LSTM, Vgg16 Model

Read Full Paper · Download PDF · Back to index

---

69 Solar Inverter with Wireless Home Automation System

Paper ID V8I2-1335 · Pages 496-499 · Sustainable Energy

Yukta Sawant, Student, New Horizon Institute Technology and Management, Thane, Maharashtra
Kunal Pathare, Student, New Horizon Institute Technology and Management, Thane, Maharashtra
Rakesh Patel, Student, New Horizon Institute Technology and Management, Thane, Maharashtra
Sahil Sane, Student, New Horizon Institute Technology and Management, Thane, Maharashtra
Sachin Shinde, Assistant Professor, New Horizon Institute Technology and Management, Thane, Maharashtra
Dr. Prashant Deshmukh, Principal, New Horizon Institute Technology and Management, Thane, Maharashtra

Increasing energy demand,high oil prices and concerns about environmental impacts are driving the development of renewable energies such as wind,solar,sea,biomass and geothermal. Solar energy is one among the foremost developed renewable energy sources . In our project, we will create a solar inverter that converts solar energy into electrical energy. This energy is used to charge the battery and simultaneously power the home lightning system and the sockets that charge multiple appliances. Home lightning systems that consist of Arduino circuits that help enable wireless operation.

Keywords: Solar Energy, Inverter, Photovoltaic Cells, Wireless Operations

© 2022, IJARIIT.COM All Rights Reserved

Read Full Paper · Download PDF · Back to index

70 Sentiment classification with the BERT procedure based on deep learning

Paper ID V8I2-1346 · Pages 500-504 · Computer Science And Engineering

P. Susmitha, Student, Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh
V. Swetha, Student, Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh
S. Udaya, Student, Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh
K. Anusha, Student, Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh
P. Nagendra, Assistant Professor, Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh

The need for Sentiment classification is a critical step in determining how people feel about a product, service, or issue. To solve the sentiment categorization problem, many natural language processing models have been developed. The majority of them, however, have concentrated on binary sentiment categorization. In this study, we tackle the fine-grained sentiment categorization task using BERT, a powerful deep learning model. Experiments show that without complicated architecture, our model outperforms other popular models in this job. In the process, we also demonstrate the utility of transfer learning in natural language processing.

Keywords: Sentiment Classification, Natural Language Processing, Deep Learning

Read Full Paper · Download PDF · Back to index

71 Artificial Reaching and Feeding Hand

Paper ID V8I2-1351 · Pages 505-511 · Robotics

Amarnath V., Student, RVS Technical Campus, Coimbatore, Tamil Nadu
Ashif C. M., Student, RVS Technical Campus, Coimbatore, Tamil Nadu
Aryatheertha A. P., Student, RVS Technical Campus, Coimbatore, Tamil Nadu
S. Dinesh, Assistant Professor, RVS Technical Campus, Coimbatore, Tamil Nadu

Robotic arms are designed for helping disabled people. The main function of the robotic arm is feeding food and drinks for disabled people. Nowadays there are so many robotic arms available in our market. These arms are more expensive because they use high-level technologies like sensing brain signals of arms and perform the task according to this. These expensive products are not affordable by common people. We are introducing this light weight portable robotic arm for feeding disabled people in affordable price. The ultimate aim of this proposed methodology is to assist the persons with movement disorder who need the help of someone to feed themselves. The proposed methodology comprises of four servo motors, one arduino controller and one usb camera. By detecting the eye blinking of the user, the operation will be initiated. The required height will be obtained by detecting the lip area of the user with the help of usb camera fixed on the robotic arm. Arduino uno is programmed in such a way to co-ordinate the required movements of the arm. The desirable robotic arm position is accomplished by the rotation of servo motors. The assistive feeding device has a gripper which can hold a spoon or a cup according to the written program. The motors will rotate in both directions to take the meals and drinks and feed to the user.

Keywords: Disabled People, Robotic Arm, Arduino Uno, Computer Vision

© 2022, IJARIIT.COM All Rights Reserved

Read Full Paper · Download PDF · Back to index

72 Jurisdiction of Crimes in the high Seas

Paper ID V8I2-1362 · Pages 512-515 · International Criminal Law

K. Aditya, Student, Christ University (Deemed to be University), Bangalore, Karnataka

In may 2021, a US warship had seized a huge weapons cache of Russian and Chinese origins off of a dinghy in the Arabian sea, however after the weapons were seized and the sailors questioned, they were let go without any hassle , as this happened on international waters, now if the same crime had happened on land, it would have been a different scenario. Many a times with the lack of jurisdiction, crimes that are illegal on the land happen in the high seas, many vessels have their registration in Panama or Liberia to reduce taxes, ships follow the laws of the countries they are registered in in the high seas, how does it affect combatting crimes perpetrated when in the sea? the issue of jurisdiction in the high seas would be explored in this research paper as that would be a hindrance when the Panama flagged cruise ship carrying US passengers reaches the Bahamas. There are these traditional crimes that happen on land like thievery, murder, rape, what is the punishment and the extent of jurisdiction for it to happen on the high seas?, in traditional passenger vessels. More importantly there are certain crimes that are exclusive to the seas like piracy and smuggling. Piracy is towards the extent that it is synonymous with crimes in the high seas. This paper will explore the causes, issues, combat of piracy in detail. The main case as to piracy is who has the jurisdiction to combat piracy? The (UNCLOS) is the guiding legislation behind the laws of the sea. This paper shall discuss the jurisdiction of the crimes, the crimes that occur as well as legislations combatting it.

Keywords: Jurisdiction; criminal acts; international maritime law; maritime safeguards; compensation and punishment.

Read Full Paper · Download PDF · Back to index

73 Rise in child labour during lockdown

Paper ID V8I2-1340 · Pages 516-524 · Economics

Anakha A. Nair, Student, Amity University, Noida, Uttar Pradesh
Dr. Neeru Sidana, Assistant Professor, Amity University, Noida, Uttar Pradesh

The prevalence of child labour is one of the most important problems confronting the world at large, especially in developing countries such as India. In many cases, child labour is mainly necessitated by the economic compulsions of the parents. The main reason which gives rise to child labour is widespread unemployment and underemployment among the adult poor strata of the population, inter alia, due to the sharp growth of population. Large families with low income and often lack educational facilities, illiteracy, and ignorance of parents about the importance of education as well as about the impact of labour on the health of their children are some of the reasons which breed child labour. Over the years, however, global consciousness about the seriousness of the problem has been created. The constitution of India also committed to the protection and promotion of welfare considerations over the economic ones. Therefore, a series of committees and commissions have been appointed by the Government of India either specifically on the question of child labor, which gives us insights into the problem and to give suggestions to alleviate this problem. The policies of

© 2022, IJARIIT.COM All Rights Reserved

modern governments in relation to child labor and child development must be pragmatic and comprehensive.

Keywords: Child Labour, National, COVID-19

Read Full Paper · Download PDF · Back to index

---

74 Execution or Rehabilitation: A comparative analysis between the criminalization of drug use in the Philippines and Portugal

Paper ID V8I2-1361 · Pages 525-528 · Criminal Law

Prithviraj Sudarsan, Student, Christ University (Deemed to be University), Bangalore, Karnataka

On the 1st of July,2016, The Phillippines, a small Asian nation with a population of close to 103 million people, had shaken the world by democratically electing an unconventional man as their leader for the next five years. Rodrigo Duterte, his fellow countrymen, affectionately known as 'Rody.' As a mayor, Duterte sparked various controversies regarding his comments on rape and extrajudicial murders. His victory in the assembly elections had provided him with powers enough to fulfil his extremist promises to his voters. Duterte's "War on Drugs" had convinced his people that the only solution to the Philippines growing drug problem is through extrajudicial killings. This unjust and bloody response to drug abuse came into effect, further leading to a murder spree within the poverty-stricken slums of The Philippines. About 12,000 Kilometers away, a tiny European country changed the world by decriminalising all kinds of drugs. In July 2001, Portugal had analysed the growing concern of drug use in the country. About 50 per cent of HIV positive cases in the country were related to drugs and, the Portuguese legislature approved a drug policy that reduced drug use to an administrative offence. The state sponsored the accused with various forms of social rehabilitation required for such drug users to blend back into society as social assets. This paper provides a contrast between both these extreme systems that had enacted such drug responses to overcome the growing concern following drug dealing and drug use among various age groups. This paper will also discuss the statistics regarding drug usage in these countries before enacting such drug policies. This article will also conclude with an analysis on whether the criminalisation of drug use is a necessary strategy for reducing the rising cases of drug-related diseases and deaths.

Keywords: Philippines, Drug Policy, War, Duterte, Portugal, Rehabilitation, Human Rights, Extra Judicial Killing

Read Full Paper · Download PDF · Back to index

---

75 Impact on rubber plantation during COVID-19: A study of Kottayam district

Paper ID V8I2-1341 · Pages 529-537 · Economics

Anakha A. Nair, Student, Amity University, Noida, Uttar Pradesh
Dr. Neeru Sidana, Assistant Professor, Amity University, Noida, Uttar Pradesh

Rubber is considered the most important and useful material in the world due to its wide scope of use in our normal daily existence. Ordinary rubber comes from the milk of rubber trees. Technical rubber is made from synthetic materials. Rubber was originally called CAUCHO to imply sobbing wood. Joseph Priestly is the man behind the use of rubber. The rubber plant is a huge, fast-growing, very durable woody plant normally, filled in the tropical zone. The dominant part of India's developing rubber land is held in a thin belt on the Western Ghats. Moderate and evenly scattered rainfall of about 2000mm and 4000mm per year, with a warm tropical

© 2022, IJARIIT.COM All Rights Reserved

temperature of about 21℃ to 35℃, a warm and humid environment, and a slightly acidic lateritic soil are excellent elements for the development of the rubber plant. Kanyakumari district in Tamil Nadu, Kerala, and southern Kanara district in Karnataka is the common rubber development belts in India. From the outside, we look at Thailand, Malaysia and Indonesia are the three of the main leading rubber producers. Natural rubber is cultivated in 16 states in India. With over 6,00,000 hectares, Kerala tops rubber cultivation, followed by Tripura with over 85,038 hectares under plantation. Other major natural rubber producers are Karnataka, Tamil Nadu, Assam, and other northeastern states. Under this study, the condition of rubber plantations will be explained before and after covid-19. The study basically attempts to study and analyze the fundamental factors that influence the price of Natural rubber in India. The study was done exclusively based on secondary data. The data were analyzed using graphs, correlations, and multiple regressions. The relationship between the domestic price and the international price was analyzed using Nominal Protection Coefficient. Based on the secondary objective to study the impact of the fall in rubber prices with reference to farmers in the Kottayam district and to study the socio-economic profile of the farmers in the Kottayam district, the data was collected by conducting direct interviews scheduled through a questionnaire with the farmers in Kottayam district. The living conditions of rubber cultivators are poor. The fall in rubber prices has affected the livelihood of farmers who depend only on rubber cultivation. Many of them have taken agricultural loans from banks or other private financing companies to meet the expenses of rubber cultivation. Without a minimum profitable price and support from the government and rubber board, it will be difficult for rubber growers to continue cultivation.

Keywords: Rubber Tree (Hevea Brasiliense) Exist Plant Type, Rubber Plantations, Caucho

Read Full Paper · Download PDF · Back to index

---

76 Drowsiness detection using OpenCV

Paper ID V8I2-1337 · Pages 538-542 · Deep Learning

Bobby Tripathi, Student, Galgotias University, Greater Noida, Uttar Pradesh
Harsh Kumar singh, Student, Galgotias University, Greater Noida, Uttar Pradesh
Ragini Kumari, Assistant Professor, Galgotias University, Greater Noida, Uttar Pradesh

With this python project, we will make Drowsiness Detection System. An incalculable number of individuals drive on the roadway day and night. Cabbies, transport drivers, transporter, and individuals voyaging significant distances experience a lack of sleep. Because of this, it turns out to be extremely dangerous to drive when feeling lethargic. Most of the mishaps occurred because of the tiredness of the driver. In this way, to prevent these mishaps we are constructing a framework using python, OpenCV, and Keras which will caution the driver when he feels drowsy. Drowsiness Detection is a security innovation that can prevent mishaps that can be brought about by drivers who dozed off while driving. The goal of this halfway python project is to make a Drowsiness Detection system that will identify that an individual’s eyes are shut for a couple of moments. The framework will caution the driver when tiredness is recognized.

Keywords: OpenCV, Drowsiness, Keras, Detection

Read Full Paper · Download PDF · Back to index

© 2022, IJARIIT.COM All Rights Reserved

77

Automatic Accident Detection System using GPS and GSM Module

Paper ID V8I2-1347 · Pages 543-545 · Mechanical Engineering

Kamaleshwaran P., Student, VSB Engineering College, Karur, Tamil Nadu
Arunkumar S., Student, VSB Engineering College, Karur, Tamil Nadu
Kanagaraj A., Student, VSB Engineering College, Karur, Tamil Nadu
Abimanyu M., Student, VSB Engineering College, Karur, Tamil Nadu
Gowtham M. P., Assistant Professor, VSB Engineering College, Karur, Tamil Nadu

With the advent of science and technology in every walk of life the significance of vehicle safety has increased and the main priority is being given to decrease the accident recognition time when an accident occurs, so that the wounded lives can be attended in lesser time by the rescue team. The Microcontroller along with ultrasonic sensor, accelerometer, GPS and GSM modules shorten the alarm time to a large amount and locate the site of accident accurately.

Keywords: Microcontroller, Buzzer, Accelerometer Sensor, GSM and GPS module

Read Full Paper · Download PDF · Back to index

© 2022, 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.

© 2022, IJARIIT.COM All Rights Reserved