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SPECTRUM

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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 1, Issue 5 (November-December, 2015). This edition brings together 3 papers by 9 authors from 3 institutions. Each entry links to the abstract and the full paper.

ABOUT IJARIIT

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2.	**A Review on Multiobjective Optimization of Process Parameter of Abrasive Water Jet Machining for Lower Surface Roughness & Higher Removal Rate of Glass Fiber Reinforced Polymer** *Jay Patani, Avakash Patel, Amit Patel* **SVBIT, GandhiNagar, Gujrat**	—	View Abstract Download PDF
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ABSTRACTS

1 Tourist Place Recommendation System

Paper ID V1I5-1136 · Computer Science

Yashwant Bhaidkar, Student, VIIT, Maharashtra
Pranav Bhagwat, Student, VIIT, Maharashtra
Priyanka Bhalere, Student, VIIT, Maharashtra
Radhika Gujar, Student, VIIT, Maharashtra
Sachin Walunj, Guide, VIIT, Maharashtra

Android Phone has power to access or fetch data from remote location and provide various facilities to the user. Hence android applications have more and more demand because of its user friendly nature and its power of computation. Many tourist are having problem to search proper tourist places due to communication overhead or less facility of tourist guide. It is impractical to search each and every tourist place at every location. So in order to provide feasible as well as user friendly solution for this problem we develop an android application which will automatically recognize famous and nearby places and send notification to android phone. This application also provides weather recommendation feature which notifies the tourist about weather conditions of the destination before visiting it. All places are properly categorized and also with review or rating. The application also provides facility of vehicle mark to reach your vehicle after site visit. We are using Triangulation method with LBS as well as GPS to track the location of user. And as per his location, relevant list of tourist places will be send in the form of pop up notification.

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2 A Review on Multiobjective Optimization of Process Parameter of Abrasive Water Jet Machining for Lower Surface Roughness & Higher Removal Rate of Glass Fiber Reinforced Polymer

Paper ID V1I5-1140 · Abrasive Water Jet Machining

Jay Patani, Student, SVBIT, GandhiNagar, Gujrat
Avakash Patel, Assistant Professor, SVBIT, GandhiNagar, Gujrat
Amit Patel, Assistant Professor, SVBIT, GandhiNagar, Gujrat

Glass fiber reinforced polymer (GFRP) composites are increasingly being used in a large number of applications in product manufacturing because of the superior advantages they offer compared to other traditional and nontraditional materials such as high strength to weight ratio, high modulus, high fracture toughness, and corrosion and thermal resistance, low cost of production, light weight, inherent strength, weather-resistant finish and variety of surface textures. However conventional machining of Glass fiber reinforced polymer (GFRP) is not so economical and ease, on the other hand non-conventional processes like laser cutting, abrasive water jet machining (AWJM), and electric discharge machining (EDM) etc., have a very good potential in overcoming these machining difficulties. Among these AWJM is commonly employed for very hard and brittle

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materials due to its Economical and Technical significance.

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3 Interleaved Technique based Buck-boost DC-DC Converter using MATLAB/Simulink

Paper ID V1I5-1142 · Power Electronics

Atul Fartiyal, Student, VIT University, Chennai

Renewable energy, plays a key role in modern society and therefore in research. This paper presents MATLAB simulation of interleaved technique based dc-dc buck-boost converter. Four switch converter, buck converter and boost converters are arranged in interleaved pattern with a damping circuit in between them. Input and output ripples of voltage and current of the converter is very low. The given system has very high efficiency with various applications.

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