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A Review on Distributed Generation Definitions and DG Impacts on Distribution System

Abstract: Rapidly growing the power consumption and decrease in generating and transmission capacities have set the trend towards the Distributed Generation (DG) sources. Still there is not a universal definition of DG. This paper discusses the different definitions proposed in the literature. For DG system to become a major part of the current power scenario it needs to be connected with the existing grid system. This integration will cause some technical, operational and economic impacts on distribution systems. This paper also summarizes these different impacts of DG on distribution system.

Keywords: Distributed Generation, Impacts of DG, Islanding, Economic Impacts of DG, Power Quality, Voltage Regulation, Islanding, Dispatched Operation

References:
26. Angel Fernandez Sarabia, “Impact of distributed generation on distribution system” A Dissertation Submitted to the Department of Energy and Technology, Faculty of Engineering, Science and Medicine, Aalborg University, June 2011
27. Jeremi Martín, “Distributed vs. centralized electricity generation: are we witnessing a change of paradigm?” May 2009
features to collect data and process it so that the resulting information from students who used to organize further activities. In another study, the educational background of the student (and types of SMA) also affects the success in education at the university. In this study developed a personalized e-learning design of the early, which is when the new students will interact with the system. The system will be a kind of student placement test. The case studies used subjects Program Building which is one of the core subjects in the study program Engineering Informatics. As the methods used Knowledge Data Discovery (KDD) using background data combined with a high school student math scores on the National Exam as an ingredient on the stage of Data Mining. This study will measure the extent of the student's educational background above can be used as a system of placement of students in personalized e-learning.

Keywords: high school background, data mining, placement, personalized e-learning.

References:

Authors: Jishnu M Thampan, Fenitha Mohammed, Tijin M S, Pratibha S Prabhu, Rince K. M.

Paper Title: Eye Based Tracking and Control System

Abstract: An eye based tracking and control system is primarily used to track the human eye movements and in turn control appliances as well as a replacement for mouse. Eye movements could be tracked by tracking the position of the pupil. Real time video processing is carried out with the help of a camera which samples the images constantly and a processor. The images taken by the camera are sent to a single board computer / PC where image processing is done to identify the location of the pupil. The necessary calibration is then carried out by which cursor tracking and appliance control could be made possible. For appliance control a separate unit is fed with the control signals which select the appliance to be controlled. In order to achieve cursor, control the control signals are fed to a computer and proper calibration would help to achieve the desired output results.

Keywords: proper calibration, computer / PC , image, possible,identify, tracking

References:

Authors: Aashish Jaiswal, Garima Sikka

Paper Title: Future Scope and Potential of Solar Energy in India An Overview

Abstract: After the oil crisis in 1973, the world has to think about the alternative resource of energy apart from conventional energy resources (coal, gas and petroleum etc.). Solar energy is the most important alternative resource of the world and has a large potential of green energy. India has a huge potential for generating green electricity from the renewable energy sources. To promote the green energy, government of India launching many
schemes for the renewable energy resources. The Jawaharlal Nehru National Solar Mission was launched on the 11th January, 2010 by the Prime Minister. The Mission has set the ambitious target of deploying 20,000 MW of grid connected solar power by 2022 is aimed at reducing the cost of solar power generation in the country through (i) long term policy; (ii) large scale deployment goals; (iii) aggressive R&D; and (iv) domestic production of critical raw materials, components and products, as a result to achieve grid tariff parity by 2022. Mission will create an enabling policy background to achieve this objective and make India a global leader in solar energy. This paper provides an overview on solar energy in India. It reviews the current status of solar energy in terms of existing capacity, along with historical trends of solar energy and future potential of different form of solar energy in India.

Keywords: Solar Energy, Solar policy and Renewable policy in India, policy; management.

References:

Authors: Ankita Singh, Nar Singh

Paper Title: Analysis of Wireless Mac 802.11 and 802.11Ext in NS-2

Abstract: The major issues with increasing of wireless networks are throughput, packet delivery ratio, average delay and MAC specifications. IEEE 802.11 standard is a set of media access control (MAC) and physical layer (PHY) for implementing wireless MAC. New modeling of IEEE 802.11 have been developed in NS-2, which introduces two new modules: Mac802_11Ext and Wireless Phy Ext for aiming at a significantly higher level of simulation accuracy. In this paper, we analysis the throughput, packet delivery ratio and average delay for Mac802_11 and 802_11Ext. Simulation results are evaluated by NS simulation. After analysis of results from NS-2 the Mac 802_11Ext is better perform to compare Mac802_11 of IEEE 802.11 in wireless network.

Keywords: IEEE802.11, Mac802_11, Mac802_11Ext, NS2.

References:
8. “ns-allinone-2.34.tar.gz-OSDN”, en.osdn.jp/projects/.../allinone/ns-allinone-2.34.tar.gz/

Authors: M. Vidhya, G. Zayaraz
<table>
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<tr>
<th>Paper Title:</th>
<th>Object Oriented Design Refactoring for Enhancing the Technical Debt</th>
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<tr>
<td><strong>Abstract:</strong></td>
<td>Code Refactoring is a process of changing the internal behavior without changing its external behavior or functionality. Manual refactoring is hard to modify changes, if we automate refactoring there are much more benefits possible. Software refactoring is a valuable process in software development and is often aimed at repaying technical debt. The automated refactoring techniques, software metrics and Metaheuristic Search and automated refactoring tool are combined to improve the quality of software without affecting its functionality. The four different refactoring approaches are compared using automated refactoring tool. The more number of metrics are added to improve the quality and reduce the complexity. Metrics are combined to measure Abstraction, coupling, inheritance and technical debt. This will improve the quality of software and also reduces technical debt by maintenance cost and time.</td>
</tr>
<tr>
<td><strong>Keywords:</strong></td>
<td>Search based techniques; refactoring; Software metrics; software quality; design level metric; Technical debt.</td>
</tr>
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