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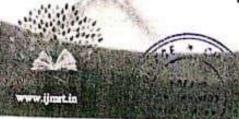
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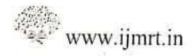
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70.	ICIRSEM-2023_paper_7	RESTRICTED, REPETITIVE, AND STEREOTYPED BEHAVIOR IN AUTISM SPECTRUM DISORDERS PREVENTION SYSTEM USING IoT T. Jeyaseelan, R. Ramya	85
71,	ICIRSEM-2023_paper_71	SEQUESTRATION OF Ni(II) and Cd(II) FROM ELECTROPLATING INDUSTRY EFFLUENT USING NEW AZOMETHINE POLYMER BEARING THIADIAZOLEAMINE GROUP FOR BETTER EFFICACY: EXPERIMENTAL DESIGN AND EQUILIBRIUM STUDIES Selvaraj Dinesh Kirupha, SuganyaShekar and Selvaraj Dhanalakshmi	86
72.	ICIRSEM-2023_paper_72	ASYMPTOTICALLY ALMOST AUTOMORPHIC SOLUTION TO FRACTIONAL IMPULSIVE COHEN - GROSSBERG NEURAL NETWORK MODEL Jeyakumar Grayna and Kumaran Karthik,	87
73.	ICIRSEM-2023_paper_73	INFLUENCE OF SPRAY PYROLYZED DOPED ZnO THIN FILMS ON ANTIBACTERIAL ACTIVITY Gajendran Pavithra	88
74.	ICIRSEM-2023_paper_74	EFFECTIVE UTILIZATION OF RENWABLE AND NON-CONVENTIONAL ENERGY SOURCES IN SOUTH INDIA M. ArumugaBabu, D. Citharthan, S. Dhanalakshmi, M. Poornima, B. T. Tharanisrisakthi	89
75.	ICIRSEM-2023_paper_75	IoT BASED ELECTRIC BIKE SMART SYSTEM FOR SPEED MONITORING AND ACCIDENT PREVENTION M. Poornima, S.Dhanalakshmi, N. Barathumar, J. Antony Arun Felix, A. Vadivazhagan	90
6.	ICIRSEM-2023 paper 76	SMART E-BIKE WITH SAFETY SYSTEM B.T. Tharanisrisakthi, S.Dhanalakshmi, G. L. Jai Purushotham Raj, E. Grasan, K. Sanjay	91
7.	ICIRSEM-2023_paper_77	ARDUINO BASED HUMIDITYAND TEMPERATURE MONITOR VIA IOT M. Poornima, J. Dhinesh, S. Kavin, S. Vinoth Kumar, M. Deebin	92

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14

ICIRSEM-2023_paper_74 EFFECTIVE UTILIZATION OF RENWABLE AND NONCONVENTIONAL ENERGY SOURCES IN SOUTH INDIA

M. ArumugaBabu*, D. Citharthan, S. Dhanalakshmi, M. Poornima, B. T. Tharanisrisakthi

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Abstract

The Micro-Grid in south India concept using blended mixture of different renewable energy sources is a building block towards the future energy networks for Long-term viable solution of energy crisis including alternate to the plants using radioactive materials as a fuel by taken into the consideration of fishermen plea of not exploiting natural sea resources because of lot of wind potential, solar energy and tidal throughout the year. The focus of the paper is aimed around the encountered and foreseen issues, enabling Innovative technologies and power system economics for encouraging the deployment of Micro-Grids in south India with the higher efficiency of whole system. The leading power firms in these renewable energy area and the associated problems like reactive power compensation etc., are studied for the feasible solution. This paper presents state-of-the-art practical issues and feasible solutions associated with the deployment of Micro-Grid technologies leading to the conceptualization of efficient and smart Micro-Grids with soft computing provision. The role of enabling technologies, automation and communication for sustainable development of Micro-Grids is also addressed here.

Keywords: Micro-Grids, Sustainable Development.

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89