

International Journal of Engineering Research and Applications (IJERA)

Editor-In-Chief

Prof. Manju Sharma

Editorial Board Members

- | | |
|----------------------------|----------------------------------|
| Dr. Hadi Arabshahi, Iran | A. K. M Nazmus Sakib, Bangladesh |
| Dr. Eugen Axinte, Romanian | Dr. Rao, P.hd, USA |
| Dr. Yaduvir Singh, India | Dr. Aknuas William, Australia |
| Dr. Shahram Jamali, Iran | |

Associate Editorial Board members

- | | |
|--|---|
| Sukumar Senthil Kumar
Universiti Sains Malaysia, School of Mathematical Sciences, Malaysia | Dr. Prasanta K Sinha
Durgapur Institute of Advanced Technology & Management, Durgapur |
| Dr. Bensafi Abd-El-Hamid
Abou Bekr Belkaid University of Tlemcen, Algeria
Tamilnadu, India | Dr. A.V.Senthil Kumar
Director, MCA depart, Hindusthan College of Arts and Science, |
| Dr. Prasanta K Sinha
Deputy Director, Durgapur Institute of Advanced Technology & Management, West Bengal | Dr. Suresh Prasad Singh
H.O.D.(Chemical Engineering), B. I. T. Sindri, Dhanbad |
| Hari Mohan Pandey
Middle East College of Information Technology, Under Coventry University, U.K. | Patrick Tiong Liq Yee
Universiti Teknologi Malaysia, Malaysia, |
| Dr. V S Giridhar Akula
Professor and Principal, Avanthi's Scientific Technological and Research Academy (JNTU), Hyderabad | Dr. Santosh K. Pandey
Department of Information Technology Board of Studies ,
The Institute of Chartered Accountants of India |

Contact Details

Ukraine Office
First floor, ST Street,
Ivano-Frankivsk, 76008, Ukraine

India Office
SC-89, Shastri Nagar,
Ghaziabad, UP, India

Email: ijera.editor@gmail.com
Website: www.ijera.com



International Journal of Engineering Research and Applications (IJERA)

**Volume 10 - Issue 1
January 2020**



All Papers are indexed in Index Copernicus



International Journal of Engineering Research and Applications (IJERA)

Volume : 10 Issue : 1 (Series-3)

ISSN : 2248-9622

January-2020

Contents :

Error handling in programmable logic controller (PLC's) <i>Eng. Abdulrahman Al Kandari, Eng. Salem Menshawi</i>	01-07
Towards Guidelines for Assembling Image Datasets for Transfer Learning Techniques <i>Elinda Kajo Meçe, Evis Trandafili, Sibora Theodhor</i>	08-13
Identification of Pathologies in Bridges Using Infrared Thermography <i>Lucas Moreira Gomides, Yuri Sotero Bomfim Fraga</i>	14-17
The Effects of Offline Simulation on Return on Investment for Robotic Investments <i>Umut Arslan, Prof. Dr. Nihat Akkuş, Asst. Prof. Dr. İsmail Temiz</i>	18-22
Wireless Networks: Types, Implementations, and Applications <i>Tahani Alnemran, Mahnaz Qabazard</i>	23-27
Simulation of hybrid solar ejector cooling system using TRNSYS and EES for Kuwait climate <i>Yaqoub A Alsalam</i>	28-33
Characterization of Lithium-ion Cathode Material Using Artificial Neural Network <i>Okonkwo F.C, Onochogh U, Ichu B. C , Uwakwe E.</i>	34-40
Utilization of 2-Ylidene-4-Thiazolidinones in the Synthesis of Heterocyclic Compounds Part (IV): Synthesis of Thiophene Derivatives <i>Mahmoud Farhat, Suhilla Elnami, Nisrin Dwaya, Moftah Darwish, Asma Errayes, Karima Abuamer, Wanisa Mohammed, Mahjoubah Munayr.</i>	41-48
Controller for Charging Electric Vehicles Using Solar Energy <i>T.R. Vignesh, M.Swathisriranjani, R.Sundar, S.Saravanan, T.Thenmozhi</i>	49-53
Developing the Solutions Provided by the Traditional Architecture to Solve the environmental Problems in Northern Sudan <i>Maysa Osman Khider</i>	54-58
The effect of Distributed Generation (Photovoltaic PV) on losses in electrical distribution network <i>Salam Adil Khudhair, Dhay Ali Sabur</i>	59-63
PV / Battery Scheme to Support 3-phase L.V. Grid by Compensating Reactive Power <i>Abdullah Abdulrazzaq Alfowzan</i>	64-70