

# 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, Hindustan 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, Avanathi'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

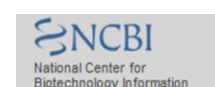
**India Office**  
SC-89, Shastri Nagar,  
Ghaziabad, UP, India

Email: [ijera.editor@gmail.com](mailto:ijera.editor@gmail.com)  
Website: [www.ijera.com](http://www.ijera.com)



# International Journal of Engineering Research and Applications (IJERA)

**Volume 12 - Issue 5**  
**May 2022**



*All Papers are indexed in Index Copernicus*



# International Journal of Engineering Research and Applications (IJERA)

Volume : 12 Issue : 5 Series 2

ISSN : 2248-9622

May-2022

## Contents :

Design and Fabrication of pneumatic divertor for Rejected items	01-04
A Review on Lining Material for Artificial Lake	05-10
A Machine Learning and IoT based approach for Flood Monitoring and Prevention	11-19
Design and Fabrication of Automatic T-shirt Folding Machine	20-23
The Effect of Chicken Manure on Soil Properties and Available N.P.K of Wheat under Sandy Soils in the Sirte City	24-30
Impact of perceived parental support on youth risk behaviors of high school and college students in some selected schools in Cameroon: Mediating roles of hope and school engagement	31-43
Comparison of Hourly Simulation Models for Multi-Vertical Borehole Heat Exchanger Arrays	44-49