

# 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<br>Universiti Sains Malaysia, School of Mathematical Sciences, Malaysia                                | Dr. Prasanta K Sinha<br>Durgapur Institute of Advanced Technology & Management, Durgapur  |
| Dr. Bensafi Abd-El-Hamid<br>Abou Bekr Belkaid University of Tlemcen, Algeria<br>Tamilnadu, India                             | Dr. A.V.Senthil Kumar<br>Director, MCA depart, Hindusthan College of Arts and Science,  |
| Dr. Prasanta K Sinha<br>Deputy Director, Durgapur Institute of Advanced Technology & Management, West Bengal                 | Dr. Suresh Prasad Singh<br>H.O.D.(Chemical Engineering), B. I. T. Sindri, Dhanbad   |
| Hari Mohan Pandey<br>Middle East College of Information Technology, Under Coventry University, U.K.                          | Patrick Tiong Liq Yee<br>Universiti Teknologi Malaysia, Malaysia,   |
| Dr. V S Giridhar Akula<br>Professor and Principal, Avanthi's Scientific Technological and Research Academy (JNTU), Hyderabad | Dr. Santosh K. Pandey<br>Department of Information Technology Board of Studies ,<br>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 8 - Issue 11  
November 2018**

**Peer Reviewed Refereed Journal**



*All Papers are indexed in Index Copernicus*



# International Journal of Engineering Research and Applications (IJERA)

Volume : 8 Issue : 11 (Part I)

ISSN : 2248-9622

November - 2018

## Contents :

|   |         |
|---|---------|
| A Methodical Study of Web Crawler   | 01-08   |
| Development of Low Cost Batch Drier to Enhance Value Chain Cassava Chips Production   | 09-12   |
| Structure and Facet Characterization of Platinum Nanoparticles Loaded on Carbon Black Particles using HRTEM   | 13-21   |
| Assessment Of Land Use / Land Cover (LU/LC) Changes In Kaddam Watershed   | 22-26   |
| Design And Fabrication Of Mechanical Cutter For Agriculture Purpose   | 27-30   |
| Discrete Extended Kalman Filter Based Ultrasonic Time-Of- Flight Estimation   | 31-37   |
| Determination Of Inverse Creep Of Infinite Hereditarily Elastoplastic Plate With Hole After Instantaneous Removal Of Internal Pressure<br>mammadova M.A | 38-42   |
| An Utilization Of Zeolite And Blast Furnace Slag For The Production Of Autoclaved Aerated Concrete  | 43-46   |
| Multifunctional Smart Energy System By Internet Of Things   | 47-48   |
| An Optimized Ring Based Clustering Protocol In Heterogeneous Wireless Sensor Networks   | 49-56   |
| Software For The Implementation Of Virtual Lab For Developing Experimental Skills In Courses Of General Chemistry                                       | 57-61   |
| Corpuscular-Wave Mechanism Of Structural Interaction In Biosystems  | 62-70   |
| Utilization of FACTS devices for improving the Operation of an Electrical Power System  | 71-77   |
| Impact of Online Reviews on Consumers' Purchase Intentions An analytical study  | 78-88   |
| A Study on Trends of Pricing Strategies in International Marketing  | 89-95   |
| Ultrafast dynamics observation during fem to second laser-material interaction  | 96-123  |
| Self-limit in glaser crystallization and direct writing of 2 Dmaterials   | 124-131 |
| The 'skin effect' of subsurface damage distribution in materials subjected to high-speed machining  | 132-146 |
| Parameteric Study of Face and Shoulder Cylindrical Grinding Process   | 147-154 |
| Characterization of Coconut Shell Ash for Potential Utilization in Metal Matrix Composites for Automotive Applications                                  | 155-161 |