

ISSN : 2248-9622

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



# International Journal of Engineering Research and Applications (IJERA)

**Volume 14 - Issue 07  
July 2024**

**Peer Reviewed Refereed Journal**



*All Papers are indexed in Index Copernicus*



# International Journal of Engineering Research and Applications (IJERA)

Volume : 14 Issue : 07 Series 2

ISSN : 2248-9622

July 2024

## Contents :

<b>A Framework to strengthen the Reliability OF financial Technology Lending Applications by Integrating with Central Banks</b>	<b>100-105</b>
<b>Some Multicolor Night Lighting Effects Through Edge Detection Techniques</b>	<b>106-112</b>
<b>Development of a Distance Education Platform Providing Secure Data Storage and Tamper-Proof Certification: Robust Guard</b>	<b>113-121</b>
<b>Dataset analysis for energy efficiency to use Machine Learning</b>	<b>122-126</b>
<b>Diversified portfolio optimization under deep learning prediction and heuristics optimization</b>	<b>127-137</b>
<b>The Role of Artificial Intelligence on Higher Education in India and its Adoption in Higher Education Institution</b>	<b>138-141</b>
<b>Hybrid DC- DC Converter w ith Dual Switch Topology for Solar</b>	<b>142-148</b>
<b>An asymmetrical Cascaded 19-Level Inverter with Reduced Switches Count Using Phase Shift Frequency Modulation</b>	<b>149-155</b>
<b>Artificial Intelligence of Pushpaka Vimana used in Ramayana</b>	<b>156-162</b>
<b>Electronic Regulation in Solar Photovoltaic Systems: Types, Functionality a nd Design Aspects</b>	<b>163-167</b>
<b>Evaluating Pile Bearing Capacity Through Integration of Laboratory Testing and Empirical Correlations</b>	<b>168-171</b>