

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, 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
Website: www.ijera.com



International Journal of Engineering Research and Applications (IJERA)

Volume 15 - Issue 9
September 2025

Peer Reviewed Refereed Journal



All Papers are indexed in Index Copernicus



International Journal of Engineering Research and Applications (IJERA)

Volume : 15 Issue : 9 Series 2

ISSN : 2248-9622

Sep. 2025

Contents :

An Incredible YOLOv8 with Pixel-Level Fourth-Order Entropy Guided Class Activation Map Attention for Leukemia Detection and Classification	127-145
Advances in Narrow-Gap Welding Techniques	146-148
Geochemical evaluation of soils and tannery sludge from Franca region, São Paulo State, Brazil	149-159
Safety Risk Assessment of Hydrogen-Powered Ships Using FMEA and Multi-Expert Evaluation	160-166
Microplastics Across Environments: Pathways, Impacts, and Human Risks	167-171
Enhanced Performance of Bidirectional DC-DC Converters for Electric Vehicle Systems	172-180
Assessing the Alignment of South Korea's Maritime Officers' Emergency Training with STCW Standards	181-186
Comparative analysis of sugar content in storage roots of three sweet potato genotypes grown in a greenhouse under different substrate and irrigation conditions	187-192
Exploring the Role of Public Spaces in Shaping Community Dynamics: A Systematic Review	193-213