



# IEMTRONICS

## International Conference



# IEMTRONICS 2026



### Best paper based on Reviewers' Choice: IEMTRONICS 2026

Sl. No.	#	Title	Track name	Authors with affiliation and country
1	1571261663	An Open and Verifiable ConvNeXt-Based Pipeline for Breast Cancer Detection in Mammography Using CBIS-DDSM	Artificial Intelligence & Machine Learning	Araj Shah, Saujanya Thapaliya and Vijay Chaudhary (Howard University, USA); Fadel M Lashhab (Howard University & Washington DC, USA); Kholood Ahmad (Howard University, USA)
2	1571274413	Transient Pattern Detection in Bragg Wavelength Shift Measurements in Fiber Optics Sensing Application by Deep Learning	Artificial Intelligence & Machine Learning	Sankhyabrata Bandyopadhyay (University of Cambridge, UK) Mathias Fabian, Tong Sun, Kenneth T V Grattan (City St George's, University of London, UK)
3	1571262074	Quantum Machine Learning for Decoding Alien Communications: Using Quantum Neural Networks to Analyze SETI Signals	Artificial Intelligence & Machine Learning	Hari Gonaygunta and Hanh Le (University of the Cumberland, USA); Elyson A De La Cruz (University of the Cumberland, USA & Imagine Believe Realize LLC, USA); Dharmender T Salian (University of Cumberland, USA); Karthik Meduri and Geeta Sandeep Nadella (University of the Cumberland, USA)
4	1571234897	HMAIDS: A Hierarchical Multi-Agent Framework for Adaptive and Explainable Intrusion Detection	Artificial Intelligence & Machine Learning	Ola Suaifan (Montclair State University, USA); Vaibhavi Tiwari (Montclair State University, USA & NYC DOHMH, USA); Ramy Othman and Katherine G. Herbert (Montclair State University, USA)

5	1571254879	Edge-IoT Enabled Precision Agriculture: Multispectral Drone Data for Intelligent Crop Health Monitoring	IoT & Data Science	Sahil Khushal Wakode (Indian Institute of Technology, Kharagpur, India); Arundhati Boruah (Indian Institute of Technology Kharagpur, India); Shyamal Das Mandal (IIT Kharagpur, India)
6	1571254454	Interpretable AI for Clinical Decision Support: A Comparative Analysis of Machine Learning and Deep Learning Models	Artificial Intelligence & Machine Learning	Venkatesh Ankarla Sri Ramuloo (University of the Cumberland, USA); Sanjay Kumar Polampally (Valparaiso University, USA); Ashok Morsu (ThermoFisher, USA); Lokesh Vegi (USA); Venugopala Reddy Kusam (PepsiCo, USA & Microsoft, USA); Sumanth Banakar (University of the Cumberland, USA)
7	1571263312	AI-Based Trajectory Planning and Multi-Obstacle Avoidance for the SERS-6 Quad-Swerve Space Exploration Rover	Artificial Intelligence & Machine Learning	Sean Serdar Kalaycioglu (University (TMU) & AIMechatroniX and Dr Robot Inc., Canada)
8	1571267336	Review of Deep Learning Applied for Compensating Thermo-Elastic Distortion	Artificial Intelligence & Machine Learning	Sadben Khan and Stephen Andrew Gadsden (McMaster University, Canada)
9	1571253235	Improving FTTH Network Reliability Through Electrical Transient Mitigation	Mobile Communication	Langha N. Pius (South Regional Directorate, Cameroon Telecommunications, Ebolowa,, Cameroon); Viranjay M. Srivastava and Wenyan Wu (Birmingham City University, United Kingdom (Great Britain))
10	1571255182	Power Flow State Variable Estimation of IEEE 39 Bus Transmission System Network Using Multiple Linear Regression	Artificial Intelligence & Machine Learning	Chokder Alamgir Bartend Russell (IUB, Bangladesh); Shahriar Khan (Independent University, Bangladesh)
11	1571260617	Designing a Wireless Insulin Pump for Enhanced ICU Patient Care	Electronics	Abdelkarim Jabali and Abdelmalek Adiche (Imam Abdulrahman Bin Faisal University, Saudi Arabia); Kamran Hameed (Imam AbdulRahman Bin Faisal University, Saudi Arabia)
12	1571264523	A Neural Perron Frobenius Operator Constrained Soft Sensor with Application to Robotic Systems	Artificial Intelligence & Machine Learning	Yuandi Wu (McMaster University, Canada); Stephen Andrew Wilkerson (York College of Pennsylvania, USA); Stephen Andrew Gadsden (McMaster University, Canada)