



# 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	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)
3	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)

4	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)
5	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)
6	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)
7	1571267336	Review of Deep Learning Applied for Compensating Thermo-Elastic Distortion	Artificial Intelligence & Machine Learning	Sadben Khan and Stephen Andrew Gadsden (McMaster University, Canada)
8	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))
9	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)
10	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)
11	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)