



IEEE UEMCON 2023

2023 IEEE 14th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)

Physical Conference (Columbia University, New York, USA)

12th – 14th October 2023

All the timings are given in Eastern Standard Time (EST (UTC-05))

TECHNICAL SCHEDULE

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All the timings are given in Pacific Daylight Time (PDT (UTC-07))

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All the timings are given in Eastern Standard Time (EST (UTC–05))

DAY 1: 12TH OCTOBER 2023

TIME	NAME OF THE EVENT
9:00 - 9:30 AM	INAUGURATION
9:30 AM - 10:15 AM	KEYNOTE ADDRESS BY ERNEST DAVIS (PROFESSOR, NEW YORK UNIVERSITY) TITLE OF TALK: AI AND ELEMENTARY SCIENCE AND MATH WORD PROBLEMS
10:15 AM - 11:00 AM	KEYNOTE ADDRESS BY E.(ERIC) GLEN WEYL (RESEARCH LEAD (MICROSOFT RESEARCH)) TITLE OF TALK: PLURALITY: TECHNOLOGY FOR COOPERATIVE DIVERSITY AND DEMOCRACY

11:00 AM – 11:30 AM

COFFEE BREAK

All the timings are given in Eastern Standard Time (EST (UTC–05))

DAY 1: 12TH OCTOBER 2023

TIME	PARALLEL SESSION
11:30 AM–12:30 PM	SESSION 1: BIG DATA MANAGEMENT
11:30 AM–12:30 PM	SESSION 2: BIG DATA MANAGEMENT AND DATA ANALYTICS
11:30 AM–12:30 PM	SESSION 3: CLOUD COMPUTING
2:00 PM–3:00 PM	SESSION 4: BIG DATA MANAGEMENT AND DATA ANALYTICS
2:00 PM–3:15 PM	SESSION 5: CLOUD COMPUTING, ALGORITHMS
2:00 PM–2:45 PM	SESSION 6: ALGORITHMS AND THEORY
3:45 PM–5:00 PM	SESSION 7: SECURITY AND PRIVACY
3:45 PM–4:45 PM	SESSION 8: SECURITY AND PRIVACY
3:45 PM–4:45 PM	SESSION 9: SECURITY AND PRIVACY

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PARALLEL SESSIONS

SESSION 1: BIG DATA MANAGEMENT

SESSION CHAIR : AJAY K SHRESTHA (VANCOUVER ISLAND UNIVERSITY, CANADA)

SESSION TIME: 11:30 AM – 12:30 PM (DAY 1: 12th Oct 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM -11:45 AM	1570937297	A Metaprogramming Algorithm to Simplify the Coding Syntax of Data Analysis Methods	David Shilane (Columbia University, USA)
11:45 AM – 12:00 PM	1570947959	I'm Not a Human: A Comparison of Bot and Human Self-Presentation	Lale Madahali and Jin Tian (Iowa State University, USA)
12:00 PM - 12:15 PM	1570948943	Deep Data-Driven RUL Prediction for Optimizing Safety-Constrained CBM Strategies in Plant Modernization	Yi Huang (Infobeyond Technology LLC, USA)
12:15 PM -12:30 PM	1570937299	Machine Learning Methods to Predict Telehealth Utilization	David Shilane, Ting an Heidi Lu and Zhenyi Zheng (Columbia University, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 2: BIG DATA MANAGEMENT AND DATA ANALYTICS AND CLOUD COMPUTING

SESSION CHAIR: WEITIAN WANG (MONTCLAIR STATE UNIVERSITY, USA)

SESSION TIME: 11:30 AM – 12:30 PM (DAY 1: 12th Oct 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM -11:45 AM	1570947537	Image Augmentation With Convolutional Neural Networks	Michael Curry (State University of New York at New Paltz, USA); Min Chen (State University of New York - New Paltz, USA)
11:45 AM – 12:00 PM	1570945515	Signal Attenuation Through Foliage Estimator (SAFE)	Mathieu Châteauvert (Communication Research Centre Canada, Canada); Jonathan Ethier (Government of Canada, Industry, Science and Innovation, Canada); Pierre Bouchard (CRC, Canada)
12:00 PM - 12:15 PM	1570945614	Stress Testing for Resilience of Semiconductor Supply Chains	Zachary A Collier (Radford University, USA); Davis C Loose, Elvie Sellers, Thomas Polmateer and Madhur Behl (University of Virginia, USA); Igor Linkov (University of Florida and US Army Engineer Research and Development Center); James H. Lambert (University of Virginia, USA)
12:15 PM -12:30 PM	1570947944	Do API Migrations Revert Commits - A Preliminary Investigation	Omar Meqdadi and Nazim A Choudhury (University of Wisconsin, Green Bay, USA)

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SESSION 3: CLOUD COMPUTING**SESSION CHAIR: SUPRIYO KARMAKAR (FARMINGDALE STATE COLLEGE-SUNY, USA)****SESSION TIME: 11:30 AM – 12:30 PM (DAY 1: 12th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM -11:45 AM	1570938757	Cloud-Based Human Emotion Classification Model From EEG Signals	Suhaima Jamal, Meenalosini Vimal Cruz and Jongyeop Kim (Georgia Southern University, USA)
11:45 AM – 12:00 PM	1570940448	Internet-Of-Things Augmentation of Public Access Naloxone Containers to Establish a Distributed Network for Resource Monitoring and Utilization Research (NaloxBox+)	Joanne Z Liu (Brown University, USA); Frederick A. Varone, John K Volpe, Leo Kobayashi and Geoffrey A Capraro (Alpert Medical School of Brown University, USA)
12:00 PM - 12:15 PM	1570947847	Dash: A Low Code Development Platform for AI Applications in Industry	Yifan Wang, Ken Birman and Weijia Song (Cornell University, USA); Yuting Yang (Cornell University, USA); Charif Mahmoudi, Shashank Shekhar (Siemens Corporation, Technology, USA)
12:15 PM -12:30 PM	1570950017	Exploring Solutions for Security of Container Images	Frank Campo and Howe Wang (Johns Hopkins University, USA); Joel Coffman (United States Air Force Academy & Johns Hopkins University, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))**Lunch Break****12:30 PM- 2:00 PM**

PARALLEL SESSIONS

SESSION 4: BIG DATA MANAGEMENT AND DATA ANALYTICS

SESSION CHAIR : DAVID SHILANE (COLUMBIA UNIVERSITY, USA)

SESSION TIME: 2:00 PM – 3:00 PM (DAY 1: 12th Oct 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570947069	Assessment of Visual Patient Re-Identification in a Live Emergency Department Waiting Room	Haibo Wang (Philips Research, USA); Leo Kobayashi and Geoffrey A Capraro (Alpert Medical School of Brown University, USA); Kees van Zon (USA); Mukul Rocque (Philips Research, The Netherlands); Sophia Bonenfant, Mark Brinkman, Mads Cosgriff, Samuel Craft, Rachel Fried, Abbey Haynes, Daniel Higgins, Hyein Lee, Meredith Mozzone and Christine Ortiz (Rhode Island Hospital, Providence RI, USA); Alana Oster (Rhode Island Hospital, USA); Evaniz Suarez and Jessica Tremblay (Rhode Island Hospital, Providence RI, USA); Derek Merck (USA); Ihor Kirenko (Philips Research Laboratories, The Netherlands)
2:15 PM – 2:30 PM	1570947376	Mappin: A Web Native Browse Tool for the NASA JPL ITS_LIVE Project's Ice Velocity Dataset	Jacob R. Fahnestock and Douglas E Dow (Wentworth Institute of Technology, USA)
2:30 PM – 2:45 PM	1570949970	Review of Digitalization Using Big Data Maturity Models: The Case of American Automotive SMEs	Dharmender T Salian and Raed Sbeit (University of Cumberlands, USA)
2:45 PM -3:00 PM	1570950155	Crime Reach Analysis Within the Environmental Backcloth	Andrew J. Park and Finian Lugtigheid (Trinity Western University, Canada); Valerie Spicer (Simon Fraser University, Canada); Stefano Z. Stamato (Vivacity Technologies, Canada); Vincent T. Nguyen (Simon Fraser University, Canada)

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SESSION 5: CLOUD COMPUTING, ALGORITHMS**SESSION CHAIR : WEITIAN WANG (MONTCLAIR STATE UNIVERSITY, USA)****SESSION TIME: 2:00 PM – 3:15 PM (DAY 1: 12th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570950039	Efficient Cloud Pipelines for Neural Radiance Fields	Derek Jacoby (University of Victoria & QVirt Labs, Canada); Donglin Xu, Weder Ribas and Minyi Xu (Northeastern University, Canada); Ting Liu (University of Victoria, Canada); Vishwanath Jeyaraman and Mengdi Wei (Northeastern University, Canada); Emma De Blois and Yvonne Coady (University of Victoria, Canada)
2:15 PM – 2:30 PM	1570945095	Secure, Fast, and Loss-Tolerant Communication With Hill Cipher and Network Coding	Hiroshi Nishida (ASUSA Corporation, USA)
2:30 PM – 2:45 PM	1570938066	Congestion-Aware Routing in Software Defined Vehicular Networks	Nikhita M (PES University, India); Rajasekar Mohan (PES University & MEMBER IET, India)
2:45 PM -3:00 PM	1570940442	Comparison of Video Photoplethysmography, Video Motion Analysis, and Passive Infrared Thermography Against Traditional Contact Methods for Acquiring Vital Signs in Emergency Department Populations	Leo Kobayashi (Alpert Medical School of Brown University, USA); Carlin Chuck (Brown University, USA); Chris Kim (EY-Parthenon, USA); Katherine Luchette (University of Pennsylvania, USA); Alana Oster (Brown Physicians Incorporated, USA); Derek Merck (USA); Ihor Kirenko (Philips Research Laboratories, The Netherlands); Kees van Zon (USA); Marek Bartula (Philips Research Europe, The Netherlands); Mukul Rocque (Philips Research, The Netherlands); Haibo Wang (none); Canberk Baci (USA); Benoit Balmaekers (Philips Research, The Netherlands); Rene Derkx (Philips Research, Eindhoven, The Netherlands); Geoffrey A Capraro (Alpert Medical School of Brown University, USA)
3:00 PM – 3:15 PM	1570942508	Drone for Object Tracking	Ryan Walczyk (Farmingdale State College - SUNY, USA); Dana Moore (Farmingdale State College, USA); David Zhagui and Peter Burgos (Farmingdale State College - SUNY, USA); Supriyo Karmakar (Farmingdale State College-SUNY, USA)

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SESSION 6: ALGORITHMS AND THEORY**SESSION CHAIR: AJAY K SHRESTHA (VANCOUVER ISLAND UNIVERSITY, CANADA)****SESSION TIME: 2:00 PM – 2:45 PM (DAY 1: 12th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570950187	Effective Crowd Management in a T-Intersection	Andrew J. Park (Trinity Western University, Canada); Ryan Ficocelli (Thompson Rivers University, Canada); Lee Patterson and Frank Dodich (Justice Institute of British Columbia, Canada); Valerie Spicer (Simon Fraser University, Canada); Herbert H. Tsang (Trinity Western University, Canada)
2:15 PM – 2:30 PM	1570949864	Informative Path Planning Algorithm for the Exploration of Unknown 2D Environments	Geronimo Macias and Kooktae Lee (New Mexico Institute of Mining and Technology, USA)
2:30 PM – 2:45 PM	1570944667	P4Chain: A Multichain Approach for Real-Time Anomaly Traffic Detection in P4 Network	Oluwaseyi Ajayi (Vaughns College of Aeronautics and Technology, USA & City College of New York, USA); Temidayo L Akinyemi (City University of New York, USA); Tarek Saadawi (The City University of New York/The City College, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))**Coffee Break****3:15 PM- 3:45 PM**

PARALLEL SESSIONS

SESSION 7: SECURITY AND PRIVACY

SESSION CHAIR: KOOKTAE LEE (NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY, USA)

SESSION TIME: 3:45 PM – 5:00 PM (DAY 1: 12th Oct 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:45 PM – 4:00 PM	1570947269	User Profiling Attack Using Windows Registry Data	Edward L Amoruso, Cliff Zou and Richard Leinecker (University of Central Florida, USA)
4:00 PM – 4:15 PM	1570950006	Local (Per-Input) Robustness Based Guided Adversarial Training of Deep Neural Networks (DNN)	Abdul-Rauf Nuhu (North Carolina Agriculture and Technical State University, USA); Mahmoud Nabil (North Carolina A & T, USA); Yonas Ayalew, Vahid Hemmati and Abdollah Homaifar (North Carolina A&T State University, USA); Edward Tunstel (Johns Hopkins University Applied Physics Laboratory, USA)
4:15 PM – 4:30 PM	1570929931	Defining Metrics for Comparing Threat Intelligence Solutions Through the Lens of the Analyst	Alexander Plaza (Fordham University, USA); Thaier Hayajneh (Fordham Universtiy, USA)
4:30 PM – 4:45 PM	1570947697	DT4I4-Secure: Digital Twin Framework for Industry 4.0 Systems Security	Yu-Zheng Lin (University of Arizona, USA); Sicong Shao (University of North Dakota, USA); Md Habibor Rahman, Mohammed Shafae and Pratik Satam (University of Arizona, USA)
4:45 PM- 5:00 PM	1570947794	Secure Data Provenance for Internet of Vehicles With Verifiable Credentials	Anuj Nepal and Robin Doss (Deakin University, Australia); Frank Jiang (Australia, Australia)

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SESSION 8: SECURITY AND PRIVACY**SESSION CHAIR: DAVID SHILANE (COLUMBIA UNIVERSITY, USA)****SESSION TIME: 3:45 PM – 4:45 PM (DAY 1: 12th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:45 PM – 4:00 PM	1570947967	Signals of Opportunity: Spoof Detection With Low-Cost Hardware and Edge Devices	Peter J Toth (United States Military Academy, USA); Thomas A Babbitt (USMA, USA); Timothy Graziano (United States Military Academy, USA)
4:00 PM – 4:15 PM	1570948652	Enhancing IoT Security and User Experience: Leveraging SGIoT-SURE for Effective Security Implementations	Shubhavi Arya (Indiana University Bloomington, USA); Saatvik Arya (University of Washington, USA); Minakshi Arya (North Dakota State University, USA); Jaibir S Arya (Government of Haryana, India)
4:15 PM – 4:30 PM	1570949060	Scalability and Reliability in Semi-Decentralized Federated Learning With Blockchain: Trust Penalization and Asynchronous Functionality	Ajay K Shrestha (Vancouver Island University, Canada); Faijan A Khan, Mohammed A Shaikh, Amir Jaberzadeh and Jason Geng (Bayes Solutions, USA)
4:30 \PM – 4:45 PM	1570950123	Cybersecurity Vulnerabilities in IoT-Based Precision Farming Systems	Shree Ram Abayankar Balaji and Sriram Prabhakara Rao (University of North Dakota, USA); Prakash Ranganathan (University of North Dakota, United Kingdom (Great Britain))

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SESSION 9: SECURITY AND PRIVACY**SESSION CHAIR: APARNA VARDE (MONTCLAIR STATE UNIVERSITY, USA)****SESSION TIME: 3:45 PM – 4:45 PM (DAY 1: 12th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:45 PM – 4:00 PM	1570949972	Automated Railway Crossing System: A Secure and Resilient Approach	Aditi Golder (Jahangirnagar University, Bangladesh); Debashis Gupta (Wake Forest University, USA); Saumendu Roy (University of Saskatchewan, Canada); Md. Abdullah Al Ahasan (University of Regina, Canada); Mohd Ariful Haque (Clark Atlanta University, USA)
4:00 PM – 4:15 PM	1570949977	Investigating Drone Data Recovery Beyond the Obvious Using Digital Forensics	Smit Chandrakant Nayak, Bharath Kumar Samanthula and Vaibhavi Tiwari (Montclair State University, USA)
4:15 PM – 4:30 PM	1570950022	Development of Trustable Deep Learning Model in Remote Sensing Through Explainable-AI Method Selection	Sumaiya Tasneem and Kazi Aminul Islam (Kennesaw State University, USA)
4:30 \PM – 4:45 PM	1570949978	GSM Based Home Security Alarm System Using Arduino (Using Mobile Call)	Aditi Golder (Jahangirnagar University, Bangladesh); Debashis Gupta (Wake Forest University, USA); Saumendu Roy (University of Saskatchewan, Canada); Md. Abdullah Al Ahasan (University of Regina, Canada); Mohd Ariful Haque (Clark Atlanta University, USA)

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DAY 2: 13th Oct 2023

TIME	NAME OF THE EVENT
9:00 AM - 9:45 AM	KEYNOTE ADDRESS BY YIANNIS ALOIMONOS (PROFESSOR, UNIVERSITY OF MARYLAND) TITLE OF TALK: THE UNIVERSAL GRAMMAR OF ACTION: A KEY TO AI
9:45 AM - 10:30 AM	KEYNOTE ADDRESS BY YEVGENIY DODIS (PROFESSOR, NEW YORK UNIVERSITY) TITLE OF TALK: RANDOM NUMBER GENERATION AND EXTRACTION
10:30 AM - 11:15 AM	KEYNOTE ADDRESS BY HONGYUAN ZHAN (SENIOR RESEARCH SCIENTIST, FACEBOOK META) [VIRTUAL PRESENTATION] MEETING LINK : https://zoom.us/j/6319961197 TITLE OF TALK: PRACTICAL ASYNCHRONOUS FEDERATED LEARNING WITH BUFFERED AGGREGATION

11:15 AM – 11:45 AM

COFFEE BREAK

All the timings are given in Eastern Standard Time (EST (UTC–05))

Day 2: 13th Oct 2023

TIME	PARALLEL SESSION
11:45 AM–1:00 PM	SESSION 10: CRYPTOGRAPHY, SECURITY AND SENSOR NETWORKS
11:45 AM–1:00 PM	SESSION 11: SENSOR NETWORKS AND SYSTEMS
11:45 AM–12:45 PM	SESSION 12: ENERGY MANAGEMENT AND GREEN COMPUTING
2:00 PM–3:15 PM	SESSION 13: SIGNAL AND IMAGE PROCESSING
2:00 PM–3:00 PM	SESSION 14: MACHINE LEARNING
2:00 PM–3:00 PM	SESSION 15: SIGNAL AND IMAGE PROCESSING, VLSI AND FPGADESIGN
3:45 PM–5:15 PM	SESSION 16:MACHINE LEARNING
3:45 PM–5:00 PM	SESSION 17:ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
3:45 PM–5:15 PM	SESSION 18:MACHINE LEARNING

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PARALLEL SESSIONS

SESSION 10: CRYPTOGRAPHY, SECURITY AND SENSOR NETWORKS

**SESSION CHAIR : OLUWASEYI AJAYI (VAUGHNS COLLEGE OF AERONAUTICS AND TECHNOLOGY,
USA & CITY COLLEGE OF NEW YORK, USA)**

SESSION TIME: 11:45 AM – 1:00 PM (DAY 2: 13th Oct 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:45 AM – 12:00 PM	1570950761	An Evaluation of AI-Based Network Intrusion Detection in Resource-Constrained Environments	Syed Rizvi (South East Technological University, Ireland); Mark Scanlon (University College Dublin, Ireland); Jimmy McGibney and John Sheppard (South East Technological University, Ireland)
12:00 PM - 12:15 PM	1570950102	Deep Fake and Digital Forensics	Hamed Alshammari (University of Bridgeport, USA); Khaled M. Elleithy (School of Engineering, University of Bridgeport, USA)
12:15 PM -12:30 PM	1570951940	Empowering IoT: Performance and Energy Evaluation of Lightweight Cryptography for Smart Devices	David Weng (Illinois Mathematics and Science Academy, USA)
12:30 PM – 12:45 PM	1570947772	Exploring Accelerometer Sensors for Optimized Smart Shoe-Based Fall Detection	Ali Nikoukar (Otto von Guericke University Magdeburg, Germany); Behnam Dezfouli (Santa Clara University, USA); Mesut Günes (Otto von Guericke University Magdeburg, Germany); Md Shohanoor Rahman (Communication and Networked Systems (ComSys) -OVGU University, Magdeburg Germany, Germany)
12:45 PM – 1:00 PM	1570945821	Federated Semi-Supervised Driver Behavior Classification	Darren L De Guzman (Rochester Institute of Technology & Carrier, USA); Alexander Loui (Rochester Institute of Technology, USA)

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SESSION 11: SENSOR NETWORKS AND SYSTEMS**SESSION CHAIR: MIRCEA STAN (UNIVERSITY OF VIRGINIA, USA)****SESSION TIME: 11:45 AM – 1:00 PM (DAY 2: 13th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:45 AM – 12:00 PM	1570947952	WeldMon: A Cost-Effective Ultrasonic Welding Machine Condition Monitoring System	Beitong Tian, Ahmadreza Eslamina, Kuan-Chieh Lu, Yaohui Wang and Chenhui Shao (University of Illinois at Urbana-Champaign, USA); Klara Nahrstedt (University of Illinois Urbana-Champaign, USA)
12:00 PM - 12:15 PM	1570946197	3DFusion, A Real-Time 3D Object Reconstruction Pipeline Based on Streamed Instance Segmented Data	Xi Sun (University of Victoria, Canada); Derek Jacoby (University of Victoria & QVirt Labs, Canada); Yvonne Coady (University of Victoria, Canada)
12:15 PM -12:30 PM	1570948944	Low Power Internet-Of-Things Sensing Platform for Environment Monitoring	Colin Watson and Gbadebo Adeniyi (Bradley University, USA); Shrikant S Jadhav (San Jose State University, USA); Youngsoo Kim (University of Minnesota at Duluth, USA)
12:30 PM – 12:45 PM	1570949603	An Energy-Efficient TDMA Algorithm for Energy Harvesting Wireless Sensor Networks	Robert J Hayek (Northwestern University, USA); Ahmed Ammar (Ohio Northern University, USA)
12:45 PM – 1:00 PM	1570949938	Performance Analysis of SVM-Based DOA Estimation for Uniform Linear Arrays	Showrov Rahman, Yashaswini Mandalam and Kaushallya Adhikari (University of Rhode Island, USA)

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SESSION 12: ENERGY MANAGEMENT AND GREEN COMPUTING**SESSION CHAIR : K NAGA SUJATHA (JNTUH COLLEGE OF ENGINEERING, HYDERABAD, INDIA)****SESSION TIME: 11:45 AM – 12:45 PM (DAY 2: 13th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:45 AM – 12:00 PM	1570933180	BioFi: Enabling Sustainable IoT Connectivity With BioFibre-Based Wireless Signal Enhancer	Vijay Kanade (Independent researcher)
12:00 PM - 12:15 PM	1570947699	Deep Reinforcement Learning Based Energy Management Strategy in Fuel Cell Range Extender Buses	Carolin Junk, David Kraus and Eric Sax (Karlsruhe Institute of Technology, Germany)
12:15 PM -12:30 PM	1570948620	Machine-Learning Assisted Segmentation to Assess the Outcomes of Tissue Ablation With Nanosecond Pulses	Mohammad Shahab Uddin (Old Dominion University, USA); Vincent Yi (Ocean Lake High School, Virginia Beach, USA); Hongfang Zhang and Shu Xiao (Old Dominion University, USA)
12:30 PM – 12:45 PM	1570948783	Branch Prediction in CPU Pipelining	Wafa M Elmannai, Ian Healy and Peter Giordano (Manhattan College, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))**1:00 PM – 2:00 PM****LUNCH BREAK**

PARALLEL SESSIONS

SESSION 13: SIGNAL AND IMAGE PROCESSING

SESSION CHAIR: Wafa M Elmannai (Manhattan College, USA)

SESSION TIME: 2:00 PM – 3:15 PM (Day 2: 13th Oct 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570946709	Heart Rate Monitoring Using Infrared Imaging	Aref Smiley (University of Utah, USA); Joseph Finkelstein (University of Utah, School of Medicine, USA)
2:15 PM – 2:30 PM	1570943731	Convolutional Neural Network-Based Regression for Direction of Arrival Estimation	Christopher J Bell and Kaushallya Adhikari (University of Rhode Island, USA); Lauren A Freeman (Naval Undersea Warfare Center Newport, USA)
2:30 PM – 2:45 PM	1570949222	Neural Network for Improve ORB-SLAM2 on XZ Plane	David Lázaro-Mata (Tecnológico Nacional de México En Celaya, Mexico); Joel-Artemio Morales Viscaya, José-Eleazar Peralta-López and Juan-Carlos Gomez-Cortes (TecNM En Celaya, Mexico); Jose A. Padilla-Medina, Juan Martínez-Nolasco and Alejandro Israel Barranco-Gutierrez (TecNM Celaya, Mexico)
2:45 PM -3:00 PM	1570947616	Quantifying Repetition in Symbolic Music Using Lempel-Ziv Compression	Anton Chen (Sidwell Friends School, USA); Ross Greer (University of California, San Diego, USA)
3:00 PM – 3:15 PM	1570947416	Assessment and Detection of Electrical Faults Using Deep Learning Algorithms	K Naga Sujatha (JNTUH College of Engineering, Hyderabad, India); R Durga Rao (JNTUH College of Engineering, Manthani, India); C Radhacharan (JNTUH College of Engineering, Jagtial, India)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 14: MACHINE LEARNING**SESSION CHAIR : EMAN ABDELFATTAH (SACRED HEART UNIVERSITY, USA)****SESSION TIME: 2:00 PM – 3:00 PM (DAY 2: 13th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570950011	Efficient Quantization and Hardware Implementation of AlexNet on Resource-Limited FPGAs	Eric Rex (Villanova University & Exelon Corporation, USA); Xiaofang Wang (Villanova University, USA)
2:15 PM – 2:30 PM	1570947955	Identification of Cyanobacteria for Harmful Algal Blooms Research Using the YOLO Framework	Benjamin Li (Millburn High School, USA); Karen Serrano, Meiyin Wu, Weitian Wang, Michelle M. Zhu and Melissa Mazzaro (Montclair State University, USA)
2:30 PM – 2:45 PM	1570946708	Regression Analysis for Prediction of Exercise Exertion Levels Using Physiological Data	Aref Smiley (University of Utah, USA); Joseph Finkelstein (University of Utah, School of Medicine, USA)
2:45 PM -3:00 PM	1570949586	Advancing Connectomics High-Precision Neural Structure Segmentation Using U-Net-Based Model	Anindita Das Bhattacharjee (Institute of Engineering and Management, Kolkata, India); Debi Majumdar (University of California, Santa Cruz, USA); Snehil Dey (Institute of Engineering and Management, Kolkata, India); Srijita Sarkar (Institute of Engineering and Management, India)

All the timings are given in Eastern Standard Time (EST (UTC–05))

**SESSION 15: SIGNAL AND IMAGE PROCESSING, VLSI AND FPGA
DESIGN**

**SESSION CHAIR: JOBEDA J KHANAM (FARMINGDALE STATE COLLEGE & FLORIDA STATE
UNIVERSITY, USA)**

SESSION TIME: 2:00 PM – 3:00 PM (DAY 2: 13th Oct 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570950100	Retrieval Functionality for Robot to Assist Mobility Challenged Individuals	Jesse H. Khoury, Dylan Wang, William Long and Douglas E Dow (Wentworth Institute of Technology, USA)
2:15 PM – 2:30 PM	1570946647	A Comparative Study Between Time-Domain Symmetrical Components Extraction Method and Proportional-Resonant Control Method Under Unbalanced Grid Voltages Conditions	Mohammad Alathamneh and Haneen Ghanayem (Auburn University, USA); Mark Nelms (Co-Chair, USA)
2:30 PM – 2:45 PM	1570946652	Adaptive PIR Current Controllers for Torque Ripple Reduction of PMSM Using Decoupled Speed and Flux Control	Haneen Ghanayem and Mohammad Alathamneh (Auburn University, USA); Mark Nelms (Co-Chair, USA)
2:45 PM -3:00 PM	1570947544	Accelerating FPGA Implementation of Neural Network Controllers via 32-Bit Fixed-Point Design for Real-Time Control	Chanakya Hingu and Xingang Fu (University of Nevada Reno, USA); Rajab Chaloo (Texas A&M University-Kingsville, USA); Jiang Lu (University of Houston Clear Lake, USA); Xiaokun Yang (University of Houston - Clear Lake, USA); Letu Qingge (North Carolina Agricultural and Technical State University, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

3:15 PM – 3:45 PM

COFFEE BREAK

PARALLEL SESSIONS

SESSION 16: MACHINE LEARNING			
SESSION CHAIR: XIAOFANG WANG (VILLANOVA UNIVERSITY, USA)			
SESSION TIME: 3:45 PM – 5:15 PM (DAY 2: 13th Oct 2023)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:45 PM – 4:00 PM	1570933341	Predicting COVID-19 Using Machine Learning	Anita Singhrova (DCR University of Sc. & Technology, Murthal, Sonapat, India); Chitesh Khandelwal (Deenbandhu Chhotu Ram University of Science and Technology, India)
4:00 PM – 4:15 PM	1570941260	Classifying Air Quality Using Machine Learning Models	Eman Abdelfattah (Sacred Heart University, USA); Yuval Ashkenazi (Ramapo College of New Jersey, USA)
4:15 PM – 4:30 PM	1570946720	How to Detect AI-Generated Texts?	Amartya Hatua (Fidelity Investments, USA); Trung Thanh Nguyen (Winona State University, USA); Andrew Sung (University of Southern Mississippi, USA)
4:30 PM – 4:45 PM	1570949895	Enhancing Precision and Robustness in Indoor Localization Using Temporal and Spatial Features for BLE Fingerprinting	Maria Camila Molina (Conservatoire National des Arts et Métiers & N-Vibe, France); Iness Ahriz and Michel Terré (CNAM, France); Charlie Galle (N-Vibe, France)
4:45 PM – 5:00 PM	1570946945	CNN-Based Autoencoder and Post-Training Quantization for On-Device Anomaly Detection of Cartesian Coordinate Robots	Hyuntae Cho (Tongmyong University, Korea (South))
5:00 PM- 5:15 PM	1570947628	Predicting Stock Prices Using News Headlines, Tweets and Search Trends	Betul Mescioglu and Sam Abuomar (Lewis University, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 17: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: JOBEDA J KHANAM (FARMINGDALE STATE COLLEGE & FLORIDA STATE UNIVERSITY, USA)****SESSION TIME: 3:45 PM – 4:45 PM (DAY 2: 13th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:45 PM – 4:00 PM	1570947998	Formulating Emotion Graph Through the Lens of Advanced AI Models	Catherine Fang (Carnegie Mellon University, USA)
4:00 PM – 4:15 PM	1570949996	Predicting Travel Time in Complex Road Structures Using Deep Learning	Vignaan Vardhan Nampalli and Charan Gudla (Mississippi State University, USA)
4:15 PM – 4:30 PM	1570950084	Enhancing Cybersecurity: A Pipeline Approach for Efficient Machine Learning Intrusion Detection	Ethan Berei, Ahmed Oun and M. Ajmal Khan (Ohio Northern University, USA)
4:30 PM – 4:45 PM	1570950036	Intentional Biases in LLM Responses	Nicklaus J. S. Badyal (University of Victoria, Canada); Derek Jacoby (University of Victoria & QVirt Labs, Canada); Yvonne Coady (University of Victoria, Canada)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 18: MACHINE LEARNING**SESSION CHAIR: DOUGLAS E DOW (WENTWORTH INSTITUTE OF TECHNOLOGY, USA)****SESSION TIME: 3:45 PM – 5:15 PM (DAY 2: 13th Oct 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:45 PM – 4:00 PM	1570950099	Predicting Excess Energy and User Input for Vehicle-To-Grid (V2G) Services Using Machine Learning	Prashanth Rajagopalan (University of North Dakota, USA); Prakash Ranganathan (University of North Dakota, United Kingdom (Great Britain))
4:00 PM – 4:15 PM	1570950163	MARTA: Modern Automatic Renderings From Text to Animation	Andrew J. Park (Trinity Western University, Canada); Evelyn Griffith (Allegheny College, USA); Bryan Rachmat and Finian Lugtigheid (Trinity Western University, Canada)
4:15 PM – 4:30 PM	1570950174	Integrating Machine Learning and Infrared Smart Cameras Into Critically Endangered Bird Production	Constance Woodman (Texas A&M University & Field Data Services LLC, USA)
4:30 \PM – 4:45 PM	1570946918	S.H.E.R.P.A (Super Helpful Engine Recognizing People's Audio)	Federica Aveta and Tyler Cohen (Wentworth Institute of Technology, USA); Zach Ray (Wentworth Institute of Technology, Italy); Devin Chen (Wentworth Institute of Technology, USA)
4:45 PM – 5:00 PM	1570947565	Conversational Swarm Intelligence (CSI) Enables Rapid Group Insights	Louis Rosenberg, Gregg Willcox and Hans Schumann (Unanimous AI, USA); Ganesh Mani (Carnegie Mellon University, USA)
5:00 PM- 5:15 PM	1570950811	Advancing Person Re-Identification Through Pose-Estimated Features	Arnab Mukherjee and David Orville Johnson (University of Kansas, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

DAY 3: 14th Oct 2023

TIME	NAME OF THE EVENT
9:00 AM - 9:45 AM	KEYNOTE ADDRESS BY TAREK ABDELZAHER (PROFESSOR, UNIVERSITY OF ILLINOIS) TITLE OF TALK: INTELLIGENT EDGE SERVICES AND FOUNDATION MODELS FOR THE UBIQUITOUS INTERNET OF THINGS
9:45 AM - 10:30 AM	KEYNOTE ADDRESS BY LIJUAN WANG (PRINCIPAL RESEARCH MANAGER, MICROSOFT) TITLE OF TALK: AI AND MEDICINE: RECENT ADVANCES IN VISION FOUNDATION MODELS

COFFEE BREAK	10:30 AM- 11:00 AM
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Workshop on Aspects of Virtual Reality With Google Cardboard By Dr. Phillip Bradford (University of Connecticut, Stamford, USA)	11:00 AM – 2:00 PM
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All the timings are given in Eastern Standard Time (EST (UTC–05))

Day 3: 14th Oct 2023

TIME	PARALLEL SESSION
11:00 AM–1:00 PM	SESSION 19: ARTIFICIAL INTELLIGENCE AND ROBOTICS
11:00 AM–12:45 PM	SESSION 20: ROBOTICS AND AD HOC NETWORKS
2:00 PM–3:30 PM	SESSION 21: NETWORK ARCHITECTURE, SECURITY
2:00 PM–3:30 PM	SESSION 22: BLOCKCHAIN, ROBOTICS
2:00 PM–2:45 PM	SESSION 23: SATELLITE AND WIRELESS NETWORKS
4:00 PM–5:15 PM	SESSION 24: AI, ROBOTICS, AND SECURITY
4:00 PM–5:15 PM	SESSION 25: WIRELESS SENSOR NETWORK, ROBOTICS AND EMBEDDED SYSTEM
4:00 PM–5:15 PM	SESSION 26: MACHINE LEARNING

All the timings are given in Eastern Standard Time (EST (UTC–05))

PARALLEL SESSIONS

SESSION 19: ARTIFICIAL INTELLIGENCE AND ROBOTICS

SESSION CHAIR : DOUGLAS E DOW (WENTWORTH INSTITUTE OF TECHNOLOGY, USA)

SESSION TIME: 11:00 AM – 1:00 PM (DAY 3: 14th October 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570947985	HarmonyVisage: Ethical Facial Emotion Dataset Using Advanced Generative AI	Claire Xu (The Harker School, USA)
11:15 AM -11:30 AM	1570947302	Towards Knowledge Extraction and Parsing of XML Metadata for SysML System Architecture Modeling	Candice Chambers, Parth Ganeriwala, Siddhartha Bhattacharyya, Chiradeep Sen and Nasheen Nur (Florida Institute of Technology, USA)
11:30 AM -11:45 AM	1570949675	Optical Flow-Based Pose Correction for Robust Robot Localization in Corridor Environments	Suhyeon Kang and Heoncheol Lee (Kumoh National Institute of Technology, Korea (South))
11:45 AM – 12:00 PM	1570949283	Assessing Blockchain Consensus in Robotics: A Visual Homing Approach	Nasim Paykari, Damian Lyons and Mohamed Rahouti (Fordham University, USA)
12:00 PM - 12:15 PM	1570946920	RoboRover - A Jetson Nano Powered Robot Car for Object Following, Obstacle Avoidance, and Wall Following	Trinh Huynh (University of Michigan), James Walter, Federica Aveta (Wentworth Institute Of Technology)
12:15 PM- 12:30 PM	1570947659	Enhancing Cloud Security Posture for Ubiquitous Data Access With a Cybersecurity Framework Based Management Tool	Gregory Coppola, Aparna Varde and Jiacheng Shang (Montclair State University, USA)
12:30 PM -12:45 PM	1570949257	Securing Communications for IRSs-Assisted mmWave Cognitive Radio Networks	Reham Alsabet (Howard University, USA)
12:45 PM -1:00 PM	1570947114	Development of A Multimodal Trust Database in Human-Robot Collaborative Contexts	Jesse Parron, Thai Thao Nguyen and Weitian Wang (Montclair State University, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 20: MOBILE COMPUTING AND ELECTRONIC INSTRUMENTATIONS**SESSION CHAIR : GIRMA TEWOLDE (KETTERING UNIVERSITY, USA)****SESSION TIME: 11:00 AM – 12:45 PM (DAY 3: 14th October 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570946915	Assistive Reading Device for Blind Individuals	Federica Aveta and Anthony Huynh (Wentworth Institute of Technology, USA); Zoltan Marchant (Wentworth Institute of Technology, Italy); Inderdeep Singh (Wentworth Institute of Technology, USA)
11:15 AM -11:30 AM	1570931025	An AI Based Smart Conference Calling System Using Bluetooth Technology	Ankita Dixit (Samsung Research Institute Noida, India)
11:30 AM -11:45 AM	1570944433	Longcut Route Control of a Relay-Node Under the Effect of Strong Interference in an Ad Hoc Network With Multiple Autonomous Robots	Risa Takeuchi (Nagoya University, Japan)
11:45 AM – 12:00 PM	1570950816	Sybil Attack Detection in VANETs Using Fog Computing and Beamforming	Abinash Borah (Oklahoma State University, USA); Anirudh Paranjothi (Oklahoma State University, USA & Stillwater, USA)
12:00 PM - 12:15 PM	1570950107	Advancing Wireless IoT Sensor Networks With Edge-Powered RFID Devices	Elisa Pantoja and Mircea Stan (University of Virginia, USA)
12:15 PM- 12:30 PM	1570949301	Empirical Evaluation of a LoRa Mesh Network for Emergency Communication Systems	Brenton Poke (University of Michigan - Flint, USA); Suleyman Uludag (The University of Michigan - Flint, USA)
12:30 PM -12:45 PM	1570947950	Semantic-Aware Blockchain Architecture Design for Edge-Enabled Metaverse	Ning Wang and Beatriz Lorenzo (University of Massachusetts Amherst, UA)

All the timings are given in Eastern Standard Time (EST (UTC–05))**1:00 PM – 2:00 PM****LUNCH BREAK**

PARALLEL SESSIONS

SESSION 21: NETWORK ARCHITECTURE , SECURITY

SESSION CHAIR : MUATH OBAIDAT (THE CITY COLLEGE OF NEW YORK, USA)

SESSION TIME: 2:00 PM – 3:30 PM (DAY 3: 14th October 2023)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570947984	LBCC: A Load Balanced Collaborative Caching in Content Based Networking	Ms. Mina (Bangladesh University of Engineering and Technology, Bangladesh); Dipannoy Das Gupta (University of South Carolina, USA); Mahmuda Naznin (Bangladesh University of Engineering and Technology (BUET), Bangladesh)
2:15 PM – 2:30 PM	1570943287	Blockchain for Securing Custom/User-Defined Protocols in P4 Programmable Switches	Temidayo L Akinyemi (City University of New York, USA); Oluwaseyi Ajayi (Vaughns College of Aeronautics and Technology, USA & City College of New York, USA); Ihab Darwish (14 Livingston Court & City College, USA); Tarek Saadawi (The City University of New York/The City College, USA)
2:30 PM- 2:45 PM	1570947961	Bots: Genuine or Malicious	Lale Madahali and Jin Tian (Iowa State University, USA)
2:45 PM- 3:00 PM	1570915009	Design and Implementation of a Strong Arbiter PUF for the Security of FPGA	Jobeda J Khanam (Farmingdale State College & Florida State University, USA); Kevin A Cavicchi (University of Akron, USA)
3:00 PM – 3:15 PM	1570947913	Developing and Evaluating Data-Driven Heart Disease Prediction Models by Ensemble Methods on Different Data Mining Tools	Suhaima Jamal, Walaa Abo Elenin and Lei Chen (Georgia Southern University, USA)
3:15 PM- 3:30 PM	1570947988	Exploring the Impact of Early Detection on DL-Based NIDSs Models	Minxiao Wang and Ning Yang (Southern Illinois University Carbondale, USA); Ning Weng (Southern Illinois University at Carbondale, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 22: BLOCKCHAIN,ROBOTICS**SESSION CHAIR : SAM ABUOMAR (LEWIS UNIVERSITY, USA)****SESSION TIME: 2:00 PM – 3:15 PM (DAY 3: 14th October 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570945020	Enhancing Research Results With Programmable Blockchain Network	Oluwaseyi Ajayi (Vaughns College of Aeronautics and Technology, USA & City College of New York, USA); Tarek Saadawi (The City University of New York/The City College, USA)
2:15 PM – 2:30 PM	1570947550	Building a Robot to Identify Electric Vehicles From Infrared Images	Rémi Lamoureux-Lévesque (Laval University & University of Victoria, Canada); Derek Jacoby (University of Victoria & QVirt Labs, Canada); Marc-Antoine Drouin (National Research Council Canada, Canada); Xavier Maldague (Université Laval, Canada); Jonathan Fournier (Defense and Research for Defense Canada, Canada); Yvonne Coady (University of Victoria, Canada)
2:30 PM- 2:45 PM	1570947344	AI Powered Multi-Model Content Creation for Virtual Gallery Using Learning Machine	Yu-chun Shen (National Central University) (Taiwan); Yen-Wen Chen, Yi-Wei Chiu, Yu-Sin Liu and Chih-Yu Huang (National Central University, Taiwan)
2:45 PM- 3:00 PM	1570941886	Identification With CNNs by Fusing Face, Fingerprint, and Voice Recognition	Samuel B. Ehgartner and Ismail Jouny (Lafayette College, USA)
3:00 PM – 3:15 PM	1570949985	Density-Driven Multi-Agent Swarm Control With Potential Field Based Collision Avoidance	Sungjun Seo and Kooktae Lee (New Mexico Institute of Mining and Technology, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 23: SATELLITE AND WIRELESS NETWORKS**SESSION CHAIR: AREF SMILEY (UNIVERSITY OF UATH, USA)****SESSION TIME: 2:00 PM – 2:45 PM (DAY 3: 14th October 2023)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1570947957	Caching and Computation Offloading for Intelligent Transportation Systems Enabled by Satellite-Terrestrial Networks	Shulun Yang, Xiaohao Xia and Beatriz Lorenzo (University of Massachusetts Amherst, USA)
2:15 PM – 2:30 PM	1570918218	HMI Development for Displaying V2X Safety Alerts	Girma Tewolde, Sebastian Wallace and Scott LaForest (Kettering University, USA)
2:30 PM- 2:45 PM	1570927724	Embedded Virtualization on RISC-V With seL4	Michael A Doran, Jr and Nabeeh Kandalaft (Grand Valley State University, USA)

All the timings are given in Eastern Standard Time (EST (UTC–05))

3:30 PM – 4:00 PM	COFFEE BREAK
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PARALLEL SESSIONS [VIRTUAL SESSIONS]

SESSION 24: AI, ROBOTICS, AND SECURITY

SESSION CHAIR: LEI CHEN (GEORGIA SOUTHERN UNIVERSITY, USA)

SESSION TIME: 4:00 PM – 5:15 PM (DAY 3: 14TH OCT 2023)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1570946956	A Monocular Depth Estimation Method for Indoor-Outdoor Scenes Based on Vision Transformer	Jianghai Shuai, Ming Li, Yongkang Feng, Yang Li and Sidan Du (Nanjing University, China)
4:15 PM – 4:30 PM	1570948822	FogAutho: Leveraging a Novel Authentication Scheme for Securing Fog-Cloud Systems in Smart Home Applications	Ezhil Kalaimannan (University of West Florida, USA); Rajkumar Gaur (MMMUT, India); Sumit K Tetarave (KIIT, Bhubaneswar, India); Rabindra K. Barik (KIIT University, India)
4:30 PM – 4:45 PM	1570949950	Design of a Machine for the Optimization of the Potato Leaching Process to Produce Potato Starch	Katerine Nayeli Raymundo Cardenas and Luiggie Wiliams Yallico Torres (Universidad Continental, Peru); Lisbeth Rosmery Asto Huarocc (Universidad Continental, Peru); Sario Angel Chamorro Quijano (Universidad Continental, Peru)
4:45 PM- 5:00 PM	1570949614	Rigid Pavement: Compressive Strength, State of Preservation and Sampling Automation	Albert J Valenzuela Inga, Juan Gabriel Benito Zuñiga, Jose L Nizama-Mallqui, Benjamin De La Cruz Taipe, Abel Max Julcarima Espiritu and Romel Moisés Olivera Pérez (Universidad Continental, Peru)
5:00 PM – 5:15 PM	1570950162	Design of a Column Deflection Detector Robot Using a Mechanical System and Artificial Vision	Dick Bertony Romero Jimenez, Sario Angel Chamorro Quijano and Carlos Coaquira Rojo (Universidad Continental, Peru)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 25: WIRELESS SENSOR NETWORK , ROBOTICS AND EMBEDDED SYSTEM**SESSION CHAIR: MIRCEA STAN (UNIVERSITY OF VIRGINIA, USA)****SESSION TIME: 4:00 PM – 5:15 PM (DAY 3: 14TH OCT 2023)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1570949026	Multi-Microcontroller Sensor Data Acquisition to Enhance UAV Attitude Control, Predictive Maintenance, and Healthcare Solutions	Prithwish Ray Chaudhuri (Lakehead University, Canada); Rozeha A. Rashid (Universiti Teknologi Malaysia, Malaysia); Waleed Ejaz (Lakehead University, Canada)
4:15 PM – 4:30 PM	1570950805	Design of a Machine to Reduce Shrinkage and Cracking in the Rice Hulling Process	Krhistians Enrique Chávez Cárdenas, Sario Angel Chamorro Quijano, Cleo Alarcón Vasquez and Rafael De la Cruz Casaño (Universidad Continental, Peru)
4:30 PM – 4:45 PM	1570950028	Design of a Prevention and Monitoring System for People With Hypertension	Jeremy Pool Ore Moran, Jeremy De La Cruz Cortez, Sander Erick Cayllahua De La Cruz, Piero Alexander Mantari Mendoza and Sario Angel Chamorro Quijano (Universidad Continental, Peru)
4:45 PM- 5:00 PM	1570950244	Design of a Semi-Automatic Machine to Improve Garlic Processing for the Optimization of Procedures (Cutting, Shelling and Peeling) in Agricultural Areas	Leonel Alvaro Llanco Guardia, Joel Marlon Huamani Caballero, Humberto Diego Cardenas Acosta, Sario Angel Chamorro Quijano and Rafael De la Cruz Casaño (Universidad Continental, Peru)
5:00 PM – 5:15 PM	1570914131	Modular Design Architecture of a HPEC System	Vikram Rajan (Bharat Electronics Limited, India)

All the timings are given in Eastern Standard Time (EST (UTC–05))

SESSION 26: MACHINE LEARNING**SESSION CHAIR: KAZI AMINUL ISLAM (KENNESAW STATE UNIVERSITY, USA)****SESSION TIME: 4:00 PM – 5:15 PM (DAY 3: 14TH OCT 2023)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1570943996	Transforming Online Education: A Comprehensive Study of Personalized Learning Experience	Abilash Lathaharan, Danushan Ravendran, Agash Varatharasa and Abinaya Thayaparan (Sri Lanka Institute of Information Technology, Sri Lanka); Thilini Sanvitha Kasthuriarachchi (SLIIT, Sri Lanka); Karthiga Rajendran (Sri Lanka Institute of Information Technology, Sri Lanka)
4:15 PM – 4:30 PM	1570949766	Real-Time Livestock Activity Monitoring via Fine-Tuned Faster R-CNN for Multiclass Cattle Behavior Detection	Misbah Ahmad (Univerity of West of England, Bristol, United Kingdom (Great Britain) & Hartpury University, United Kingdom (Great Britain)); Wenhao Zhang (University of the West of England, United Kingdom (Great Britain)); Melvyn Smith (University of the West of England, Bristol, United Kingdom (Great Britain)); Ben Brilot and Matt Bell (Hartpury University, United Kingdom (Great Britain))
4:30 PM – 4:45 PM	1570950130	Random Forest Empowered Shade and Fault Detection in Photovoltaic Panel	Rakeshkumar Mahto, Kanika Sood and Nathaniel Ruppert (California State University, Fullerton, USA)
4:45 PM- 5:00 PM	1570918230	Supervised Learning for Non-Invasive Pre-Diabetes, Type 1 and Type 2 Diabetes Screening	Kanika Sood (California State University, Fullerton, USA); Azucena Lizbeth Jimenez Martinez (California State University Fullerton, USA)
5:00 PM – 5:15 PM	1570949433	Enhanced Nuclei Segmentation in Histopathology: Leveraging RGB Channels Through Triple-Encoder and Single-Decoder Architectures	Rashadul Islam Sumon, Md Ariful Islam Mazumdar, Shah Muhammad Imtiyaj Uddin, Moon-il Joo and Hee-Cheol Kim (Inje University, Korea (South))

**VALEDICTORY
SESSION****5:45 PM–6:15 PM****All the timings are given in Eastern Standard Time (EST (UTC–05))**