



IEEE UEMCON 2025

**2025 IEEE 16th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)
Physical Conference (IBM Louis V. Gerstner, Jr. Center for Learning, New York, USA)**

Date: 22 – 24 Oct 2025

(Conference Venue address: 20 Old Post Rd, Armonk, NY 10504)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

TECHNICAL SCHEDULE

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All the timings are given in Eastern Daylight Time (EDT (UTC-4))

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DAY	EVENT DETAILS	TIMING	PAGE NUMBER
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DAY 1: 22ND OCT 2025

TIME	PARALLEL SESSION
9:00 AM - 9:30 AM	INAUGURATION
9:30 AM – 11.00 AM	SESSION 1: APPLICATIONS OF AI [ROOM - FORUM]
9:30 AM – 10.15 AM	SESSION 2: UBIQUITOUS AND PERVASIVE COMPUTING [ROOM NO – 107N]
9:30 AM – 10.15 AM	SESSION 3: APPLICATIONS OF AI IN SCIENCE, SECURITY, AND SOCIETY [ROOM NO – 109N]
11:30 AM-1:00 PM	KEYNOTE SESSION [ROOM - FORUM]
2:00 PM – 3:30 PM	SESSION 4: APPLICATIONS OF AI AND ML [ROOM - FORUM]
2:00 PM – 3:30 PM	SESSION 5: UBIQUITOUS AND PERVASIVE COMPUTING [ROOM NO – 107N]
2:00 PM – 3:15 PM	SESSION 6: APPLICATIONS OF AI IN DIVERSE FIELDS [ROOM NO – 109N]
4:00 PM – 5:00 PM	SESSION 7: DATA AND AI [ROOM NO – FORUM]
4:00 PM – 5:00 PM	SESSION 8: APPLICATIONS OF AI IN MEDICINE, MANUFACTURING, AND MEDIA [ROOM NO – 107N]
4:00 PM – 6.00 PM	SESSION 9: INTERNET OF THINGS AND AI [ROOM NO – 109N]

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PARALLEL SESSIONS

SESSION 1: APPLICATIONS OF AI

SESSION CHAIR: CHETAN JAISWAL (QUINNIPIAC UNIVERSITY, USA)

SESSION TIME: 9:30 AM – 11:00 AM (DAY 1: 22ND OCT 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571199745	Comparative Evaluation of Expressive Japanese Character Text-to-Speech with VITS and Style-BERT-VITS2	Zackary Chase Rackauckas (Columbia University, USA & RoleGaku, USA); Julia Hirschberg (Columbia University in the City of New York, USA)
9.45 AM -10.00 AM	1571189956	Adaptive RWA Token Pricing Using Reinforcement Learning: Enhancing Decision Support in SAP ERP Systems	Yuan Xing (University of Wisconsin-Stout, USA); David Ding (NexAI Technology Co., USA); Xuedong Ding (University of Wisconsin-Stout, USA)
10.00 AM – 10.15 AM	1571199011	A Comparative Study of Sentiment Analysis on Amazon Customer Reviews: Deep Learning vs. Machine Learning with Balanced and Imbalanced Datasets	Muhammed Ihsan Corak (CUNY College of Staten Island, USA); Cuiyuan Wang (City University of New York, USA); Xiaowen Zhang (College of Staten Island / CUNY & Graduate Center / CUNY, USA)
10.15 AM -10.30 AM	1571200563	Extending GANterpolate: Multi-Variable Synthetic Data Generation for Climate Modeling	Vaibhavi Tiwari (Montclair State University, USA & MyGreen Health, USA); Venkata Sai Ram Dasari (Montclair State University, USA); Krishanu Agrawal (Stevens Institute of Technology, USA)
10:30 AM – 10:45 AM	1571196534	Evaluating Real-Time Facial Recognition on a UGV Platform: Effects of Angle, Distance, and Training Image Orientation	Sofia A Sacchetto, Taylor A Price and Vahraz Honary (University of San Diego, USA)
10:45 AM – 11:00 AM	1571200453	Forensic Intelligence with Machine Learning: Unmasking Emerging Ransomware Variants	Smit Chandrakant Nayak (Montclair State University, USA); Vaibhavi Tiwari (Montclair State University, USA & MyGreen Health, USA)

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SESSION 2: UBIQUITOUS AND PERVASIVE COMPUTING**SESSION CHAIR: NIRMALYA THAKUR (SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, USA)****SESSION TIME: 9:30 AM – 10.15 AM (DAY 1: 22ND OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571197651	Pedestrian Flow Analytics: Toward Macroscale Inference via Microscale Tracking	Nidhi Begur, Mahdi Zarif and Jason O Hallstrom (Florida Atlantic University, USA)
9.45 AM – 10.00 AM	1571197684	WiFi Device Re-Identification for Smart Cities	Stepan Mazokha, Fanchen Bao, George Sklivanitis and Jason O Hallstrom (Florida Atlantic University, USA)
10.00 AM -10.15 AM	1571198989	Should BBR Be the Default TCP Congestion Control Protocol?	Josue Abreu, Paul Bergeron and Sandhya Aneja (Marist University, USA)

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SESSION 3: APPLICATIONS OF AI IN SCIENCE, SECURITY, AND SOCIETY**SESSION CHAIR: PRAKASH SUBRAMANI (DELOITTE, USA)****SESSION TIME: 9:30 AM – 10.15 AM (DAY 1: 22ND OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571200690	Machine Unlearning Across Scales: Evaluation of Optimization Methods on Language Models	Amartya Hatua (Fidelity Investments, USA); Trung Thanh Nguyen (Winona State University, USA)
9.45 AM – 10.00 AM	1571198050	A Multimodal Graph Attention Network for Precision Oncology: Integrating Multi-Omics Data for Breast Cancer Diagnosis, Prognosis, and Treatment	Srikar Karri (Bridgeland High School, USA)
10.00 AM -10.15 AM	1571200815	SYN Flood Attacks in Wireless Local Area Networks (WLANs): Dataset and Analysis	Aaradhya M Desai, Shruti Brahma and Shivanjali Khare (University of New Haven, USA)

COFFEE BREAK**11:00 AM- 11:30AM****All the timings are given in Eastern Daylight Time (EDT (UTC-4))**

KEYNOTE SESSION [DAY 1: 22ND OCT 2025]

TIME	NAME OF THE EVENT
11:30 AM – 12:15 PM	KEYNOTE ADDRESS BY PROF. SHREE K. NAYAR (COLUMBIA UNIVERSITY, USA) TITLE OF TALK: COMPUTATIONAL IMAGING AND FUTURE CAMERAS
12:15 PM – 1:00 PM	KEYNOTE ADDRESS BY DANIEL DONGYUEL LEE (CORNELL UNIVERSITY, USA) TITLE OF TALK: NEURAL REPRESENTATIONS AND GEOMETRY

1:00 PM-2:00 PM	LUNCH BREAK
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PARALLEL SESSIONS

SESSION 4: APPLICATIONS OF AI AND ML

SESSION CHAIR: XIAOWEN ZHANG (COLLEGE OF STATEN ISLAND / CUNY & GRADUATE CENTER / CUNY, USA)

SESSION TIME: 2:00 PM – 3:30 PM (DAY 1: 22ND OCT 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571198292	Spiking Neural Networks for ECG Classification and Anomaly Detection	Shruti Bhandari (Arkansas Tech University, USA); Batuhan Asiroglu (Istanbul University- Cerrahpasa, Turkey); Sanjog Dhakal (Arkansas Tech University, USA); Tolga Ensari (Arkansas Tech University, Russellville, Arkansas, Algeria); Robin Ghosh (Corley Hall, USA); Berk Ustundag (Istanbul Technical University, Turkey)
2.15 PM – 2.30 PM	1571197355	Mood-Based Food Recommender System for Sustainable Smart Supermarket	Yang Yang, Yanxin Zhong, Fan Cheng, Wei Song, Hanyi Zhou, Michal Aibin and Sarita Singh (Northeastern University, USA)
2.30 PM - 2.45 PM	1571196973	The Hybrid Machine Learning-Based Decision-Making Approach to Predict Employee Performance	Prakash Subramani (Deloitte, USA); Arun Prasad Jaganathan (Jugl Limited, USA & Jugl, USA); Nirmal Manmathan (Jugl Incorporation Limited, USA, Ana University India, USA)
2.45 PM – 3.00 PM	1571198613	Content and Engagement Trends in COVID-19 YouTube Videos: Evidence from the Late Pandemic	Nirmalya Thakur, Madeline D Hartel, Lane Michael Boden, Dallas Enriquez and Boston Joyner Ricks (South Dakota School of Mines and Technology, USA)
3.00 PM – 3.15 PM	1571196546	Covert Surveillance in Smart Devices: A SCOUR Framework Analysis of Youth Privacy Implications	Austin Shouli, Yulia Bobkova and Ajay K Shrestha (Vancouver Island University, Canada)
3.15 PM - 3.30 PM	1571196611	AI-Driven Customer Churn Prediction in SAP BRIM Environments Using Machine Learning	Prakash Subramani (Deloitte, USA); Arun Prasad Jaganathan (Jugl Limited, USA & Jugl, USA)

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SESSION 5: UBIQUITOUS AND PERVASIVE COMPUTING**SESSION CHAIR: TRUNG THANH NGUYEN (WINONA STATE UNIVERSITY, USA)****SESSION TIME: 2:00 PM – 3:30 PM (DAY 1: 22ND OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571198870	Lessons Learned from Designing a Wireless Universal Electrochemical Sensing System	Sigmond J Kukla, Batuhan Uzunoglu and Md Jahangir Alam Khondkar (Clarkson University, USA); Timothy C Sweeney-Fanelli (Clarkson University, USA & Affects AI LLC, USA); Silvana Andreescu and Masudul Imtiaz (Clarkson University, USA)
2.15 PM – 2.30 PM	1571198941	Time-Optimal Trajectory Planning for Robotic Manipulators with Differentiable Jerk Minimization	Tanyaradzwa Chinyai (Purdue Northwest University, USA); Lizhe Tan and Mengji Yao (Purdue University Northwest, USA)
2.30 PM - 2.45 PM	1571199032	SPARK - Smart Plug-and-Play AI Framework for RAG & Knowledge	Nirmit Hitendra Dagli and Chetan Jaiswal (Quinnipiac University, USA); Sanjeev Kumar Marimekala (IBM, USA)
2.45 PM – 3.00 PM	1571200844	Development of a Servo-Based Model Rocket and Flight Behavior Analysis Using IMU Data	Jie Sheng (University of Washington Tacoma, USA); Conrad Motis (University of Washington, Tacoma, USA); Safina Baiocchi (Loyola School New York, USA)
3.00 PM – 3.15 PM	1571200616	A Two-Phase Approach to Fault Detection in Power Systems Using Machine Learning	Jie Sheng (University of Washington Tacoma, USA); J.s.s Aditya (University of Washington, Tacoma, USA); Thillainathan Logenthiran (University of Washington, USA)
3.15 PM - 3.30 PM	1571199084	Explicit Application of Artificial Neural Networks for Quantization of Energy Without Quantum Mechanics	Huber Nieto-Chaupis (Universidad Autónoma del Perú, Peru)

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SESSION 6: APPLICATIONS OF AI IN DIVERSE FIELDS**SESSION CHAIR: ANDREW J. PARK (TRINITY WESTERN UNIVERSITY, CANADA)****SESSION TIME: 2:00 PM – 3:15 PM (DAY 1: 22ND OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571198639	Towards Efficient FPGA-Based AI: A Comprehensive Study of LAFPM Architectures	Pavan K. Lakkisetty and Nusrat Jahan (California State University, Fresno, USA); Nan Wang (California State University at Fresno, USA & California State University, Fresno, USA)
2.15 PM – 2.30 PM	1571200801	Comparing Object Detection, Instance Segmentation, and Semantic Segmentation for Automated Vegetation Detection in Railroad Systems	Mingyan Liu (Smith College, USA); Van Trung Le and Hwapyeong Song (Marshall University, USA); Advay Chandramouli (University of Texas at Dallas, USA); Husnu S Narman and Ammar Alzarrad (Marshall University, USA)
2.30 PM - 2.45 PM	1571200809	Automated Detection of Acute Lymphocytic Leukemia Using DiagnoML with Integrated Machine Learning	Minakshi Arya (North Dakota State University, USA); Shubhavi Arya (Indiana University, USA); Saatvik Arya (University of Washington, USA)
2.45 PM – 3.00 PM	1571195212	Navigating Multi-Jurisdictional Privacy Compliance in AI: An Empirical Analysis of Regulatory Gaps	Philip Akekudaga (SUNY, University at Albany, USA); Mildred Adwubi Bonsu (University at Albany, USA)
3.00 PM – 3.15 PM	1571200779	Deep Learning Approaches for Railroad Infrastructure Monitoring: Comparing YOLO and Vision Transformers for Defect Detection	Advay Chandramouli (University of Texas at Dallas, USA); Hwapyeong Song (Marshall University, USA); Mingyan Liu (Smith College, USA); Aayush Damai, Husnu S Narman and Ammar Alzarrad (Marshall University, USA)

3:30 PM- 4:00 PM**COFFEE BREAK****All the timings are given in Eastern Daylight Time (EDT (UTC-4))**

PARALLEL SESSIONS

SESSION 7: DATA AND AI

SESSION CHAIR:

SESSION TIME: 4:00 PM – 5:00 PM (DAY 1: 22ND OCT 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571200725	GCN-Driven Reinforcement Learning for Probabilistic Real-Time Guarantees in Industrial URLLC	Eman Alqudah and Ashfaq Khokhar (Iowa State University, USA)
4.15 PM – 4.30 PM	1571197320	Eye-Assist: Real-Time Visual Assistance for the Visually Impaired	Christopher Falcone and Nicholas Brown (Quinnipiac University, USA); MD Fayed Salim (Quinnipiac University, USA); Zakaria Merzougui, Kruti Shah and Chetan Jaiswal (Quinnipiac University, USA)
4.30 PM – 4.45 PM	1571199693	Optimized Month-Ahead Forecasting of Solar Irradiation: A Comparative Analysis of Machine Learning Algorithms	Afshin Balal and Tom Reid (Entrust Solutions Group, USA); Nick Marcheschi (ENTRUST Solutions Group, USA); Rob Stewart (Entrust Solutions Group, USA)
4.45 PM - 5.00 PM	1571189987	Application of AI on Age Longevity and Relevance of Feature Selection on Smaller Datasets	Kshitij Pingle and Rocco Catalasan (CSUF, USA); Kanika Sood (California State University, Fullerton, USA); Logan Robertson (CSUF, USA)

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SESSION 8: APPLICATIONS OF AI IN MEDICINE, MANUFACTURING, AND MEDIA**SESSION CHAIR: HEBA ELGAZZAR (ILLINOIS STATE UNIVERSITY, USA)****SESSION TIME: 4:00 PM – 5:00 PM (DAY 1: 22ND OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571200529	Color Space-Aware Hybrid CNN Architectures for Acute Lymphoblastic Leukemia Classification	Minakshi Arya (North Dakota State University, USA); Shubhavi Arya (Indiana University, USA); Saatvik Arya (University of Washington, USA)
4.15 PM – 4.30 PM	1571198952	Bearing Fault Diagnosis Based on GCN and HVG Deep Learning Using Multi-Rate Signal Processing for Regulating Datasets with Different Shaft Rotational Speeds	Mengji Yao, Jean Jiang and Lizhe Tan (Purdue University Northwest, USA)
4.30 PM – 4.45 PM	1571198995	Transfer Learning in Bone Morphology Study for Better Hip Fracture Assessment	Sanjana Siraj and Fabiha Tasneem (Bangladesh University of Engineering and Technology, Bangladesh); Tanvir R. Faisal (University of Louisiana at Lafayette, USA); Mahmuda Naznin (Bangladesh University of Engineering and Technology (BUET), Bangladesh)
4.45 PM - 5.00 PM	1571199014	Bearing Fault Detection Using Multi-Rate Signal Processing and Bearing Frequency Band Information	Kavana Bangalore Harish, Katherine R Kilmer, Jean Jiang and Lizhe Tan (Purdue University Northwest, USA)

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SESSION 9: INTERNET OF THINGS AND AI**SESSION CHAIR: PRAKASH SUBRAMANI (DELOITTE, USA)****SESSION TIME: 4:00 PM – 6:00 PM (DAY 1: 22ND OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571197715	Cryptographically Verifiable Fingerprint Authentication Using PEP Hash	Sima Jafarikhah (University of North Carolina Wilmington, USA); Yaser Saei (Urmia University of Technology, Iran); Jafar Tahmoresnezhad (Urmia University, Iran); Hossein Siadati (UNCW, USA)
4.15 PM – 4.30 PM	1571198405	PM2.5 Concentration Prediction with Neural ODEs	Dingyu Ge (Northwest Normal University, China); Shaoting Shi Shaoting Shi (Gansu Computing Center, China); Xianghong Lin and Xiangwen Wang (Northwest Normal University, China)
4.30 PM – 4.45 PM	1571197721	Defending Every Tick: Comprehensive Attack Mitigation and Feasibility Analysis for Ad Hoc Time Synchronization	Cole P Ulrich, Laura Estremera, Sima Jafarikhah and Hosam Alamlah (University of North Carolina Wilmington, USA)
4.45 PM - 5.00 PM	1571198906	Toward Multimodal AI for Livestock: Vision-Language Modelling for Non-Invasive Cattle Behaviour Analysis in Smart Barns	Misbah Ahmad (University of the 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))
5.00 PM – 5.15 PM	1571198966	Machine Learning-Based Detection of Aquatic Defects Using EfficientNet	Syrin Alabrach, Yumna Salaas and Meriem Bettayeb (Abu Dhabi University, United Arab Emirates)
5.15 PM – 5.30 PM	1571198438	Modular Deep Neural Networks	Lequan Wang, Lq and Xianghong Lin (Northwest Normal University, China)
5.30 PM – 5.45 PM	1571187586	Proof of Concept of a Portable Wind-Solar Hybrid Generating Device for Use in Remote Areas	Victor Cristian Hinostrroza Maravi, Albert J Valenzuela Inga and Liz Analy Tapahuasco Zúñiga (Universidad Continental, Peru); Boris Senin Carhuallanqui Parian (HSE University, Russia); Elian Ramos Cordova and Yefry Huincho Quispe (Universidad Continental, Peru); Cesar Whesly Segura del Rio (Boise State University, USA)
5.45 PM – 6.00 PM	1571193118	Multimodal Generative AI Framework for Therapeutic Decision Support in Autism Spectrum Disorder	Santosh Kumar (HCLTech, India)

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Day 2: 23rd Oct 2025

TIME	PARALLEL SESSION
9:30 AM-10.45 AM	SESSION 10: APPLICATIONS OF AI WITH DEEP LEARNING [ROOM - FORUM]
9:30 AM-10.45 AM	SESSION 11: ARTIFICIAL INTELLIGENCE [ROOM NO – 107N]
9:30 AM-10.45 AM	SESSION 12: APPLICATIONS OF AI [ROOM NO – 109N]
11:30 PM – 1.00 PM	KEYNOTE SESSION [ROOM - FORUM]
2:00 PM – 4:00 PM	TUTORIAL 1: APPLICATIONS ON GENERATIVE AI [ROOM NO – 107N]
2.00 PM–3:00 PM	SESSION 13: APPLICATIONS OF AI [ROOM - FORUM]
2.00 PM–3:30 PM	SESSION 14: AI AND MACHINE LEARNING [ROOM NO – 109N]
4.00 PM- 5:00 PM	SESSION 15: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM – FORUM]
4.00 PM- 5:15 PM	SESSION 16: APPLICATIONS OF ML [ROOM NO – 107N]
4:00 PM- 6.00 PM	SESSION 17: INTERNET OF THINGS AND AI [ROOM – 109N]

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PARALLEL SESSIONS

SESSION 10: APPLICATIONS OF AI WITH DEEP LEARNING

SESSION CHAIR: HEBA ELGAZZAR (ILLINOIS STATE UNIVERSITY, USA)

SESSION TIME: 9:30 AM – 10:45 AM (DAY 2: 23rd OCT 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571198987	Engagement, Usability, and Learning in Narrative-Driven Cybersecurity Awareness Games	Claire Jennings, Seth Don-Hao Pham and Marc Dupuis (University of Washington, USA)
9.45 AM – 10.00 AM	1571198838	Evaluating Source Code Embeddings from LLMs for Educational Downstream Tasks	Neil Allister Pais, Kofi Sampong, Eric Sartor and Ritu Chaturvedi (University of Guelph, Canada)
10.00 AM -10.15 AM	1571199058	A Hybrid Approach to Building Thermal Modeling Using Physics-Based Machine Learning	Abhinandana Boodi (CESI School of Engineering, France); Karim Beddiar (CESI LINEACT, France)
10.15 AM -10.30 AM	1571199012	Visual Disaster Classification and Relevant Object Detection for Multi-Robot in Search and Rescue Operations Using Deep Learning	Juan M Calderon (Bethune Cookman University, USA); Daniel E. Gomez (Universidad Santo Tomas, Colombia)
10:30 AM – 10:45 AM	1571183086	A Fine-Tuned Personalized Movie Recommendation System Using Mask Language Models	Ezhil Kalaimannan (University of West Florida, USA); Sumit K Tetarave (KIIT, Bhubaneswar, India); Julieth Urassa and Hassan Mahaba (KIIT University, India)

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SESSION 11: ARTIFICIAL INTELLIGENCE**SESSION CHAIR:****SESSION TIME: 9:30 AM – 10:30 AM (DAY 2: 23rd OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571199964	Adaptive Weighted Loss for Sequential Recommendations on Sparse Domains	Akshay Mittal (University of the Cumberlands, USA); Vinay Venkatesh (Google, USA); Krishna Kandi (USA); Shalini Sudarsan (Kindercare Learning Companies, USA)
9.45 AM – 10.00 AM	1571200858	Interpretable Machine Learning for Phase-Change Memory Health Classification	Bashar Zaher and Marjan Asadinia (California State University, Northridge, USA)
10.00 AM -10.15 AM	1571199034	AI and Deepfakes: An Examination of Educational Interventions in Combating Deepfake-Based Disinformation	Marc Dupuis and Hyunyoung Sung (University of Washington, USA); Sophia Long (Mt. Si, USA)
10.15 AM -10.30 AM	1571196422	Long Range (LoRa) Agriculture Network in Northern New York: A Scoping Review	Anuraag Chandra Singh Thakur and Masudul Imtiaz (Clarkson University, USA)

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SESSION 12: APPLICATIONS OF AI**SESSION CHAIR: XIAOWEN ZHANG (COLLEGE OF STATEN ISLAND / CUNY & GRADUATE CENTER / CUNY, USA)****SESSION TIME: 9:30 AM – 10:30 AM (DAY 2: 23rd OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571199021	On-Policy vs. off-Policy HVAC Control: Comparing PPO and SAC-Gumbel in EnergyPlus	Khalil Al sayed (CESI, France); Abhinandana Boodi (CESI School of Engineering, France); Roozbeh Sadeghian Broujeny (CESI, France); Karim Beddiar (CESI LINEACT, France)
9.45 AM – 10.00 AM	1571199010	Deep Learning Forecasting of Dissolved Oxygen for Hypoxia Early Warning in the Indian River Lagoon	Juan M Calderon, Sarah Krejci and Jiyahna Price (Bethune Cookman University, USA)
10.00 AM -10.15 AM	1571199055	From Knowledge to Action: An Agentic AI Framework for Diabetes Management	Qingrui Li, Kapileshwor Ray Amat and Juan Li (North Dakota State University, USA)
10.15 AM -10.30 AM	1571186210	Automated Design Framework for Power Converter Using Regression Learning	Jace Rudolph (University of Minnesota Duluth, USA); Youngsoo Kim (University of Minnesota at Duluth, USA); Peng Fang (University of Minnesota Duluth, USA); Jong Park and Ryan Bussett (Honeywell, USA)

11:00 AM–11:30 AM**COFFEE BREAK****All the timings are given in Eastern Daylight Time (EDT (UTC-4))**

KEYNOTE SESSION [DAY 2: 23rd OCT 2025]

TIME	NAME OF THE EVENT
11:30 AM–12:15 PM	KEYNOTE TALK BY MATTHEW WEBSTER (FOUNDER/CEO/CISO, CYVERGENCE) TITLE OF TALK: CREATING THE AI FUTURE: SOME ASSEMBLY REQUIRED
12:15 PM - 1:00 PM	KEYNOTE TALK BY SARAH NAGY (FOUNDER/CEO , SEEK AI) TITLE OF TALK: REIMAGINING DATA AND ANALYTICS IN THE AI AGE

1:00 PM-2.00 PM	LUNCH BREAK
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TUTORIAL 1: APPLICATIONS ON GENERATIVE AI BY SUDIPTA SAHANA (UNIVERSITY OF ENGINEERING AND MANAGEMENT, KOLKATA)	2.00 PM – 4.00 PM
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All the timings are given in Eastern Daylight Time (EDT (UTC-4))

PARALLEL SESSIONS

SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: SARITA SINGH (NORTHEASTERN UNIVERSITY, USA)

SESSION TIME: 2.00 PM–3:00 PM (DAY 2: 23rd OCT 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571198695	DAGGER: Generative Adversarial Red-Teaming of Cryptographic Hashes for Secure Tactical Systems	Arunava Roy and Dipankar Dasgupta (The University of Memphis, USA)
2.15 PM – 2.30 PM	1571199019	Statistical Implausibility Detection: A Framework for Identifying Evaluation Inconsistencies in Large Language Model Security Assessment	Adiba Samreen Mahmud, Yasmeen Rawajfih and Fan Wu (Tuskegee University, USA)
2.30 PM – 2.45 PM	1571199004	Machine Learning for PPE Compliance in Underground Mining	Milka C I Madahana (University of the Witwatersrand, South Africa)
2.45 PM -3.00 PM	1571199030	Human-Centric Edge Intelligence with Gaussian Splatting for Privacy-Aware Elderly Care	Laure Bien Aime, Debashis Das, Pushpita Chatterjee and Uttam Ghosh (Meharry Medical College, USA)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 14: AI AND DEEP LEARNING**SESSION CHAIR: SANJEEV KUMAR MARIMEKALA (IBM, USA)****SESSION TIME: 2.00 PM–3:30 PM (DAY 2: 23rd OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571199020	Deep Learning-Based Wildfire Risk Prediction with Scenario-Specific Model Recommendations	Debashis Das, La Chiara Landrum, Tenicka T. Norwood, Pushpita Chatterjee and Uttam Ghosh (Meharry Medical College, USA)
2.15 PM – 2.30 PM	1571199009	Forecasting Sea Water Level Using Deep Learning Models for Enhanced Coastal Flood Management and Mitigation	Md Shah Mominul Islam Momin, Damian Valles and Eunsang Cho (Texas State University, USA)
2.30 PM – 2.45 PM	1571199053	HUGMAN: Humanoid Understanding and Generation via Multimodal AI and NLP	Andrew J. Park (Trinity Western University, Canada); Musfira Aslam (National University of Sciences and Technology, Pakistan)
2.45 PM -3.00 PM	1571193031	Agent-Based Modeling of Smart Grid Prosumer-Consumer Interactions: Simulation and Experimental Analysis in Qatar	Ameni Boumaiza (Hamad Bin Khalifa University & QEERI, Qatar)
3.00 PM – 3.15 PM	1571198591	Utilizing AI to Support Conversations in Individuals with ASD	John M Esparragoza (University of Houston-Downtown, USA); Armando Delgado, Jr (Los Angeles Valley College, USA); Berenice de la Cruz (Texas A&M University-San Antonio, USA); Damian Valles (Texas State University, USA)
3.15 PM – 3.30 PM	1571185638	Experimental Analysis Framework for LoRa-Based Wireless Sensor Networks	Sangwon Min (University of Minnesota Duluth, USA); Youngsoo Kim (University of Minnesota at Duluth, USA); Jason Chen and Eli Erickson (University of Minnesota Duluth, USA); Shrikant S Jadhav (San Jose State University, USA); Thomas Danielson (SRNL, USA)

3.30 PM- 4.00 PM**COFFEE BREAK****All the timings are given in Eastern Daylight Time (EDT (UTC-4))**

PARALLEL SESSIONS

SESSION 15: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: DAMIAN VALLES (TEXAS STATE UNIVERSITY, USA)

SESSION TIME: 4.00 PM–5:00 PM (DAY 2: 23rd OCT 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1571192232	Resilient Multi-Community Energy Exchange Architecture for Next-Generation Smart Cities	Ameni Boumaiza (Hamad Bin Khalifa University & QEERI, Qatar)
4:15 PM – 4:30 PM	1571200846	Predicting Synergistic Antioxidant Efficiency in Allicin-Flavonoid Complexes: A Machine Learning QSAR Modeling Approach	Richard Kyung (CRG, USA & CRG-NJ, USA), Youna Hong (MCPHS, USA) Byungsik Cho (K-Future Medicine Clinic, Korea)
4:30 PM – 4:45 PM	1571199025	Integrated Digital Twin Systems in Mining Operations: A Holistic Review of the Current State, Challenges, and Future Prospects	Milka C I Madahana (University of the Witwatersrand, South Africa)
4:45 PM – 5:00 PM	1571194655	A System for Real-Time Classification of Phishing Emails Using Large Language Models (LLMs) with Natural Language Processing (NLP)	James T Frazier (Morehead State University, USA); Heba Elgazzar (Illinois State University, USA)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 16: APPLICATIONS OF ML**SESSION CHAIR:****SESSION TIME: 4.00 PM–5:00 PM (DAY 2: 23rd OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1571191749	Utilization of Large Language Model-Based Embeddings for Recommendation Systems	Aiden Bosela (Morehead State University, USA); Heba Elgazzar (Illinois State University, USA)
4:15 PM – 4:30 PM	1571198911	Trade-Offs Between Traditional LLM and Chain-of-Thought Reasoning for Mathematical Tasks	Dharani Ravanam and Shivanjali Khare (University of New Haven, USA)
4:30 PM – 4:45 PM	1571198671	Machine Learning Classification of Anomalous Durations of Electrical Appliance Utilization	David Shilane and Ashwathi Prakash Nair (Columbia University, USA)
4:45 PM – 5:00 PM	1571199054	A Machine Learning Approach to Sleep Stage Classification in Mice Using Polysomnography	David F Rivas (Columbia University, USA & State University of New York - New Paltz, USA); Min Chen (State University of New York - New Paltz, USA); Rebecca Muhle (Columbia University, USA)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 16A: APPLICATIONS OF AI**SESSION CHAIR:****SESSION TIME: 4.00 PM–5:00 PM (DAY 2: 23rd OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
5:00 PM – 5:15 PM	1571197639	Smarter Patrols, Safer Streets: A Dynamic Framework for Crime-Aware Routing and Replanning	Swarnamouli Majumdar (Concordia University, Quebec, Canada); Awasthi (Concordia University, Canada)
5:15 PM – 5:30 PM	1571198947	Agentic AI and Police Crime Prediction Using Deep Learning	Swarnamouli Majumdar (Concordia University, Quebec, Canada); Awasthi (Concordia University, Canada)
5:30 PM – 5:45 PM	1571202873	Radar Target Identification Using Bispectral Features and CNN	Ismail Jouny (Lafayette College, USA)
5:45 PM – 6:00 PM	1571202875	Stepped-Frequency Radar Target Recognition Using Complex 1D-CNN	Ismail Jouny (Lafayette College, USA)
6:00 PM – 6:15 PM	1571191810	Gamification in Cybersecurity Education: Insights, Challenges, and Emerging Solutions	Shahad Altamimi (Princess Sumaya University for Technology, Jordan); Qasem Abu Al-Haija (Jordan University of Science and Technology, Jordan); Abdullah AlShuaibi (King Faisal University, Saudi Arabia)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 17: INTERNET OF THINGS AND AI**SESSION CHAIR: LIYING PENG (NORTHWESTERN UNIVERSITY, USA)****SESSION TIME: 4.00 PM–6:00 PM (DAY 2: 23rd OCT 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1571187297	Design and Development of an Automatic Solar Gate with Wireless Activation Using LoRa Technology for Efficient Water Flow Management	Victor Cristian Hinostroza Maravi and Liz Anly Tapahuasco Zúñiga (Universidad Continental, Peru) et. al.
4:15 PM – 4:30 PM	1571199042	Edge-Cloud Information-Quanta Ontology for Vision-Language Surveillance: Data-Centric Tokenization for Low-Latency IoT Deployment	Ihor Tkach (Real Solution Center LLC, USA & Lviv National University, Ukraine) et. al.
4:30 PM – 4:45 PM	1571199979	Indoor Localization for Navigation Applications Using Conformal Prediction	Maria Camila Molina (Conservatoire National des Arts et Métiers, France) et. al.
4:45 PM – 5:00 PM	1571193571	Generative Artificial Intelligence for Liver Disease Diagnosis from Clinical and Imaging Data	Santosh Kumar (HCLTech, India)
5:00 PM – 5:15 PM	1571198577	Towards a Computerized Information System for the Unified Management of Administrative and Educational Pathways for Learners (SIDEL)	Youssou Kassé (Directeur Centre de Recherche Informatique, Senegal) et. al.
5:15 PM – 5:30 PM	1571200773	Federated XGBoost-Powered Web Application for Safeguarding Personal Health Data in Hospitals and Clinics of Metropolitan Lima	Sebastian Enrique Yon, Jenny Lucia Espinoza and Carlos Alvarado (Peruvian University of Applied Sciences, Peru)
5:30 PM – 5:45 PM	1571198589	Towards Robust Prostate Segmentation in MRI Using Boundary-Aware Hybrid Dice-BCE Optimisation for Early Cancer Detection	Misbah Ahmad (University of the West of England, Bristol, United Kingdom (Great Britain) & Hartpury University, United Kingdom (Great Britain)) et. al.
5:45 PM – 6.00 PM	1571200659	Integration of AI and Sustainable Computing in Agricultural Electronics for Early Wildfire Smoke Detection and Mitigation	Misbah Ahmad (University of the West of England, Bristol, United Kingdom (Great Britain) & Hartpury University, United Kingdom (Great Britain)) et. al.

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

Day 3: 24th Oct 2025

TIME	PARALLEL SESSION
9:30 AM - 11:00 AM	SESSION 18: ARTIFICIAL INTELLIGENCE, IoT AND UBIQUITOUS COMPUTING [ROOM - FORUM]
9:30 AM - 11:00 AM	SESSION 19: NEXT GENERATION ARTIFICIAL INTELLIGENCE [ROOM NO – 107N]
9:30 AM- 10:45 AM	SESSION 20: DATA AND ARTIFICIAL INTELLIGENCE [ROOM NO. – 109N]
11:30 PM - 1:00 PM	KEYNOTE SESSION [ROOM - FORUM]
2:00 PM - 4:00 PM	TUTORIAL 2 [ROOM NO- 107N]
2:00 PM - 3:30 PM	SESSION 21: EMBEDDED SYSTEMS, AI AND IOT [ROOM NO. – 109N]
2:00 PM - 3:30 PM	SESSION 22: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM - FORUM]
4:00 PM - 5:00 PM	SESSION 23: INTERNET OF THINGS AND AI [ROOM NO. – FORUM]
4:00 PM - 5:00 PM	SESSION 24: NEXT-GEN CONSUMER DEVICES AND UBIQUITOUS INTERFACES [ROOM NO. – 107N]
4:00 PM - 5:00 PM	SESSION 25: NEXT-GEN CONSUMER DEVICES AND UBIQUITOUS INTERFACES ROOM – 109Ns]
5:30 PM – 6:30 PM	VALECDICTORY SESSION [ROOM -FORUM]

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

PARALLEL SESSIONS

SESSION 18: ARTIFICIAL INTELLIGENCE, IoT AND UBIQUITOUS COMPUTING

SESSION CHAIR: YOUNGSOO KIM (UNIVERSITY OF MINNESOTA AT DULUTH, USA)

SESSION TIME: 9:30 AM-11:00 AM (DAY 3: 24th Oct 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9:30 AM – 9:45 AM	1571198990	Human Rights in the Shadow of AI: Confronting Bias and Accountability	Mehdi Ghayoumi (SUNY Canton, USA); Kambiz Ghazinour (State University of New York in Canton, USA)
9:45 AM -10:00 AM	1571198446	Enhancing Critical Infrastructure Security: Addressing Cybersecurity Risks and Regulatory Gaps in AI-Enabled IoT Systems	Mildred Adwubi Bonsu (University at Albany, USA); Philip Akekudaga (SUNY, University at Albany, USA)
10:00 AM – 10:15 AM	1571190614	Precision Bot Hunting with Hybrid ML Models	Vanchhit Khare (Assistant Vice President, USA & M&T Bank, USA); Ankush Rastogi (IEEE Senior Member, USA)
10:15 AM -10:30 AM	1571193547	Proof of Increased Security of Polymorphism	Sai Ranganath Mikkilineni (Delaware State University, USA); Albert H Carlson (Quantum Security Alliance, USA); Benjamin Williams (University of Idaho, USA); Christopher Briscoe (Emet Classical Academ, USA); Mandeep Singh (USA)
10:30 AM – 10:45 AM	1571200283	Phishing Experiments in the Wild: Lessons for Ubiquitous and Context-Aware Security	Samantha E Smith and Marc Dupuis (University of Washington, USA)
10:45 AM – 11.00 AM	1571197685	The Use of Machine Learning to Model Player Readiness in Female Collegiate Volleyball Players	Mae E Olsen (University of Alabama, USA & Texas State University, USA); Jorge A Pineda (Austin College, USA); John W Farrell III, Damian Valles and Pema Y Sherpa (Texas State University, USA)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 19: NEXT GENERATION ARTIFICIAL INTELLIGENCE**SESSION CHAIR: TRUNG THANH NGUYEN (WINONA STATE UNIVERSITY, USA)****SESSION TIME: 9:30 AM-11:00 AM (DAY 3: 24th Oct 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9:30 AM – 9:45 AM	1571198006	Multi-Modal Emotion Temporal Environment Facial Classification to Help Children with ASD	Kaavya Sri Ramarapu (Texas State University Texas United States, USA); Maria D Resendiz, Marcelo M Carvalho and Damian Valles (Texas State University, USA)
9:45 AM -10:00 AM	1571199050	Stance Analysis of YouTube Comments on Videos About Severe Extremist Attacks	Andrew J. Park and Rediet Ababayehu (Trinity Western University, Canada)
10:00 AM – 10:15 AM	1571200349	AI-Augmented Multi-Cloud Serverless Framework for Explainable Outbreak Management in Healthcare	Vivek Venkatesan and Deepak Barla (Independent Researcher, USA)
10:15 AM -10:30 AM	1571197985	Predicting Toxic Gas Levels in Structure Fires Using Machine Learning	Annabella Wagner (Texas A&M University, USA); Evren Aslan (USA); Daniel Marimekala (Farmington High School, USA); Damian Valles (Texas State University, USA)
10:30 AM – 10:45 AM	1571198310	How Well Do LLMs Imitate Human Writing Style?	Rebira B Jemama (USA); Rajesh Kumar (Bucknell University, USA & IIT Delhi, India)
10:45 AM – 11:00 AM	1571193549	Calculating the Increased Speed of Polymorphic Encryption	Sai Ranganath Mikkilineni (Delaware State University, USA); Albert H Carlson (Quantum Security Alliance, USA); Benjamin Williams (University of Idaho, USA); Mandeep Singh (USA); Christopher Briscoe (Emet Classical Academ, USA)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 20: DATA AND ARTIFICIAL INTELLIGENCE**SESSION CHAIR: VASUNDHARA BHUPATHI (DXC TECHNOLOGY, USA)****SESSION TIME: 9:30 AM-10:45 AM (DAY 3: 24th Oct 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9:30 AM – 9:45 AM	1571199045	An Accessible STP-Based Framework for Autonomous Robot Soccer with Simple Robots	Andrew J. Park and Dominic Nootebos (Trinity Western University, Canada)
9:45 AM -10:00 AM	1571198932	Prediction of Housing Prices During Economic Variability Using Machine Learning and Deep Learning Techniques	Maliha Momtaz (University of Maryland Global Campus, USA & Technuf LLC, USA); Faisal Quader and Rodney Leslie (University of Maryland Baltimore County, USA); George Dimitoglou (Hood College, USA); Bill Hilbers (Technuf LLC, USA)
10:00 AM – 10:15 AM	1571200288	A Unified Framework for Mitigating Hallucinations in Large Language Models: Integrating Internal and External Validation Strategies	Akshay Mittal (University of the Cumberlands, USA); Goutam Tadi (Astronomer, USA); Srinu Madduri (The University of Chicago, USA)
10:15 AM -10:30 AM	1571200284	A Framework for Secure and Scalable State Management in Cloud-Native Multi-Modal AI Agents	Goutam Tadi (Astronomer, USA); Akshay Mittal (University of the Cumberlands, USA); Srinu Madduri (The University of Chicago, USA)
10:30 AM – 10:45 AM	1571199001	Processing Random Data with Bayesian Perceptron with Probabilistic Outputs	Huber Nieto-Chaupis (Universidad Autónoma del Perú, Peru)

11.00 AM – 11.30 AM**COFFEE BREAK****All the timings are given in Eastern Daylight Time (EDT (UTC-4))**

KEYNOTE SESSION [DAY 3: 24th Oct 2025]

TIME	NAME OF THE EVENT
11:30 AM–12:15 PM	<p align="center">KEYNOTE TALK BY RAPHALLE D’ORNANO (FOUNDER, DECODING DISCONTINUITY)</p> <p align="center">TITLE OF TALK: THE AGENTIC ERA – FROM AI AGENTS TO AGENTIC AI : WHAT NEW RULES IN ARCHITECTURE AND VALUE</p>
12:15 AM–1:00 PM	<p align="center">KEYNOTE TALK BY NISHEETH K.VISHNOI (PROFESSOR, YALE UNIVERSITY, USA)</p> <p align="center">TITLE OF TALK: AI AND THE FUTURE OF WORK</p>

LUNCH BREAK	1.00 PM–2.00 PM
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<p align="center">TUTORIAL 2: On Aspects of Virtual Reality By Dr. Phillip Bradford (University of Connecticut, Stamford, USA)</p>	2.00 PM- 4.00 PM
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All the timings are given in Eastern Daylight Time (EDT (UTC-4))

PARALLEL SESSIONS

SESSION 21: EMBEDDED SYSTEMS , AI AND IOT

SESSION CHAIR: DAMIAN VALLES (TEXAS STATE UNIVERSITY, USA)

SESSION TIME: 2:00 PM -3.30 PM (DAY 3: 24th Oct 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1571199035	Understanding the Performance Implications of the Dual-Architecture RP2350 Microcontroller	Robert Leslie and Lauren Biernacki (Lafayette College, USA)
2:15 PM – 2:30 PM	1571200666	SARB: Passive and Scalable Validation of Time Synchronization	Tim Brockmann (University of Rostock, Germany); Michael Rethfeldt (University of Rostock & Institute of Applied Microelectronics and Computer Engineering, Germany); Benjamin Beichler (University of Rostock, Germany); Frank Golatowski (University of Rostock & Institute of Applied Microelectronics and Computer Engineering, Germany); Christian Haubelt (University of Rostock, Germany)
2:30 PM – 2:45 PM	1571199039	Integrating Performance Testing Pipelines with Cloud-Based Analytics for Predictive Modeling Using ML	Sowmya Chintakindi and Shiva Shankar Kusuma (USA)
2:45 PM -3:00 PM	1571200850	AI for Human Behavior Prediction	Richa Trivedi (Amazon, USA)
3:00 PM – 3:15 PM	1571200804	Characterizing Large-Scale Adversarial Activities Through Large-Scale Honey-Nets	Tonia Haikal (Texas A&M University, USA); Eman Hammad (University of Toronto, Canada & Texas A&M University, USA); Shereen Ismail (University of Michigan, USA & Merit Network, Inc., USA)
3:15 PM – 3:30 PM	1571194271	Machine Learning Algorithms for Spotting 6G Network Penetration of Different Attacks	Anindya Bal and Sumit Chowdhury (University of Hawaii at Manoa, USA); Nabonita Halder (PSTU, Bangladesh); Haofan Cai (University of Hawaii at Manoa, USA)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 22: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR:EMAN ABDELFAH (SACRED HEART UNIVERSITY, USA)****SESSION TIME: 2:00 PM -3.30 PM (DAY 3: 24th Oct 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 PM – 2:15 PM	1571198624	Privacy-Preserving Lightweight IDS for Smart Home Botnet Defense	Mildred Adwubi Bonsu (University at Albany, USA); Philip Akekudaga (SUNY, University at Albany, USA)
2:15 PM – 2:30 PM	1571198945	IoT-Based Smart Watering System with Multi-Modal AI for Improved Plant Growth	Sarita Singh, Youjia Zheng, Wei Li and Mario Nascimento (Northeastern University, USA)
2:30 PM – 2:45 PM	1571200834	A Hybrid Method for IIoT Attack Detection Based on Fuzzy Cognitive Maps	Prathibha Keshavamurthy (Villanova University, USA & Villanova, USA); Sarvesh Kulkarni (Villanova University, USA)
2:45 PM -3:00 PM	1571198984	PeaceMeal: Designing Multi-Intention and Emotionally Safe Mobile Health Applications	Liyong Peng (Company, USA)
3:00 PM – 3:15 PM	1571200879	Predicting the Bioactivity of Biotite Through Quantum Chemical Descriptors: A Focus on Stability and Radical Scavenging Activity	Richard Kyung (CRG, USA & CRG-NJ, USA) , Wonse Kim (Boston College, USA) , Chulsu Kim (MMBio Inc., Korea)
3:15 PM – 3:30 PM	1571184308	A Single-Stage Isolation High-Step-down Converter with Leakage Energy Recycling and Simple Circuit Configuration for Communication System Applications	Chih-Lung Shen, Ho-Teng Huang, You-Lin Jian and Teresa Bei-Yi Shen (National Kaohsiung University of Science and Technology, Taiwan)

03:30 PM - 04:00 PM**COFFEE BREAK****All the timings are given in Eastern Daylight Time (EDT (UTC-4))**

PARALLEL SESSIONS

SESSION 23: INTERNET OF THINGS AND AI

SESSION CHAIR: ANDREW J. PARK (TRINITY WESTERN UNIVERSITY, CANADA)

SESSION TIME: 4:00 PM – 5:00 PM (DAY 3: 24th Oct 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1571187275	Proof of Concept of a Wheelbarrow with Hitch Warning System to Optimize Tasks in Civil Works	Victor Cristian Hinostroza Maravi, Liz Analy Tapahuasco Zúñiga and Elian Ramos Cordova (Universidad Continental, Peru); Boris Senin Carhuallanqui Parian (HSE University, Russia); Romildo Genaro Silva Cuadros (UNMSM, Peru); Cesar Whesly Segura del Rio (Boise State University, USA)
4:15 PM – 4:30 PM	1571193039	Radiomics-Driven AI for Adipose Tissue Characterization: Towards Explainable Biomarkers of Cardiometabolic Risk in Abdominal MRI	Santosh Kumar (HCLTech, India)
4:30 PM – 4:45 PM	1571199869	Boosting Indoor Localization Accuracy Using Reinforcement Learning Post-Processing	Hakim Adjedjou (Conservatoire nationale des arts et métiers- Paris, France); Iness Ahriz (CNAM, France); Leila Hamdad (Ecole Supérieur d'Informatique, France); Dany Merhej (CNAM, Lebanon)
4:45 PM – 5:00 PM	1571198432	Comparing Big Data Messaging Platforms: An Evaluation of Apache Kafka, RabbitMQ, and Redis	Aditya Pujara (Microsoft, Australia); Faheem Ullah (Zayed University, United Arab Emirates); Jamal El Hachem (IRISA, France)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 24: NEXT-GEN CONSUMER DEVICES AND UBIQUITOUS INTERFACES**SESSION CHAIR: KHALED M. ELLEITHY (UNIVERSITY OF BRIDGEPORT, USA)****SESSION TIME: 4:00 PM – 5:00 PM (DAY 3: 24th Oct 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1571197369	Contactless Estimation of Blood Pressure Changes Using Radar-Derived Heart Sounds and Peripheral PPG	Aref Smiley (University of Arizona, College of Medicine, USA); Joseph Finkelstein (University of Arizona, USA)
4:15 PM – 4:30 PM	1571200874	Integration of AI, AR, and Voice into Daily-Use Gadget	Richa Trivedi (Amazon, USA)
4:30 PM – 4:45 PM	1571200795	A Study on Cyber Awareness and Digital Literacy Training Beyond Watching Videos	Dena Barmas (State University of New York at Canton, USA); Kambiz Ghazinour (State University of New York in Canton, USA)
4:45 PM – 5:00 PM	1571186168	Application-Specific AI/ML Core Synthesis on FPGA	Youngsoo Kim (University of Minnesota at Duluth, USA); Isaac Glenzinski (Bradley University, USA); Jace Rudolph (University of Minnesota Duluth, USA)

All the timings are given in Eastern Daylight Time (EDT (UTC-4))

SESSION 25: NEXT-GEN CONSUMER DEVICES AND UBIQUITOUS INTERFACES**SESSION CHAIR: VASUNDHARA BHUPATHI (DXC TECHNOLOGY, USA)****SESSION TIME: 4:00 PM – 5:00 PM (DAY 3: 24th Oct 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1571199061	Merit Network Telescope: Processing and Initial Insights from Nearly 20 Years of Darknet Traffic for Cybersecurity Research	Shereen Ismail (University of Michigan, USA & Merit Network, Inc., USA); Eman Hammad (University of Toronto, Canada & Texas A&M University, USA); William Hatcher (Texas A&M University, USA); Salah Dandan (University of North Dakota, United Arab Emirates); Ammar Alomari and Michael Spratt (Merit Network, USA)
4:15 PM – 4:30 PM	1571199044	A Comparative Study of Packet Capture Tools for Reliable Network Telescope Traffic Collection	Shereen Ismail (University of Michigan, USA & Merit Network, Inc., USA); Eman Hammad (University of Toronto, Canada & Texas A&M University, USA); Salah Dandan (University of North Dakota, United Arab Emirates); William Hatcher (Texas A&M University, USA); Ammar Alomari (Merit Network, USA)
4:30 PM – 4:45 PM	1571196387	Autonomous Drone-Assisted Wheat Health Prediction Using CNN Model	Shreyan Mitra (USA)
4:45 PM – 5:00 PM	1571189006	Machine Learning Approach to Classify Gas and Position for Single Elder Home	Eman Abdelfattah and Kevin Bowlyn (Sacred Heart University, USA)

VALEDICTORY SESSION**5.30 PM – 6.30 PM****All the timings are given in Eastern Daylight Time (EDT (UTC-4))**