



WORLD AI IOT CONGRESS



# IEEE AIoT 2026

2026 IEEE 7<sup>th</sup> Annual World AI IoT Congress (AIoT)

**Seattle Convention Center, USA**

**20<sup>th</sup> -22<sup>nd</sup> May 2026**

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

# TECHNICAL SCHEDULE

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

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
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**All the timings are given in Pacific Daylight Time (PDT (UTC-07))**

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## DAY 1: 20th May 2026

TIME	PARALLEL SESSION
9:00 AM - 9:30 AM	INAUGURATION [ROOM NO- 3AB]
9:30 AM – 11:00 AM	SESSION 1: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 307]
9:30 AM – 11:00 AM	SESSION 2: AI ALGORITHMS [ROOM NO- 308]
9:30 AM – 11:00 AM	SESSION 3: MACHINE VISION, AI ALGORITHMS [ROOM NO-309]
11:00 AM- 11:30 AM	COFFEE BREAK
11:30 AM-1:00 PM	KEYNOTE SESSION [ROOM NO- 3AB]
1:00 PM – 2:00 PM	LUNCH BREAK
2:00 PM - 5:00 PM	TUTORIAL 2: ASPECTS OF VIRTUAL REALITY [ROOM NO- 307]
2:00 PM – 3:30 PM	SESSION 4: AI ALGORITHMS AND IoT [ROOM NO- 3AB]
2:00 PM – 3:30 PM	SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 308]
2:00 PM – 3:30 PM	SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 309]
3:30 AM- 4:00 PM	COFFEE BREAK
4:00 PM – 5:30 PM	SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ [ROOM NO- 307]
4:00 PM – 5:30 PM	SESSION 8 : SECURITY; COMPUTATIONAL INTELLIGENCE; ARTIFICIAL INTELLIGENCE TOOLS [ROOM NO- 308]
4:00 PM – 5:30 PM	SESSION 9 : : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 309]
4:00 PM – 5:45 PM	SESSION 10: COMPUTATIONAL INTELLIGENCE, ROBOTICS AND PARALLEL PROCESSING [ROOM NO. – 3AB]

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## PARALLEL SESSIONS

### SESSION 1: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**SESSION CHAIR: RASIB KHAN (NORTHERN KENTUCKY UNIVERSITY, USA)**

**SESSION TIME: 9:30 AM – 11:00 AM (DAY 1: 20th May 2026) [ROOM NO. – 307]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	<b>1571272357</b>	Workflow Strategy in a Modular Human-AI Collaboration Framework for LLM-Assisted Thematic Analysis of POTS Interviews	Yunbing Bai and Aileen S Gabriel (The University of Arizona, USA); Joseph Finkelstein (University of Arizona, USA)
9.45 AM -10.00 AM	1571273817	ThreatVisionAI: A Hybrid CNN-ViT Framework for Image-Based Malware Classification	Allyson Taylor and Prashanth BusiReddyGari (University of North Carolina at Pembroke, USA)
10.00 AM – 10.15 AM	1571270894	Benchmarking Framework for ECG Preprocessing Algorithms: Method and Comparison for Edge Computing	Jasmin Freudenberg and Annika Steiger (University of Siegen, Germany); Kai Hahn and Madjid Fathi (Universität Siegen, Germany); Christian Weber (University of Siegen, Germany)
10.15 AM -10.30 AM	1571273743	Using Machine Learning for Predicting Non-Adherence in Remote Oncology Symptom Monitoring	Aref Smiley (University of Arizona, College of Medicine, USA); Christina Echeverria and Kathi Mooney (The University of Utah, USA); Joseph Finkelstein (University of Arizona, USA)
10:30 AM – 10:45 AM	<b>1571273136</b>	Multi-Dimensional Evaluation of Open-Weight Large Language Models: A Framework for Application-Driven Model Selection	Jinesh Patel (UC Riverside, USA); Vivek Bharti (Roku Inc., USA); Atishay Jain (Roku Inc, USA); Arpit Malhotra and Shailin Saraiya (USA)
10:45 AM – 11:00 AM	1571276247	Comparing Logistic Regression, Elo Ratings, and Hybrid Models for Predicting Sports Tournament Outcomes	Avas Bajracharya and Ghaith Husari (East Tennessee State University, USA)

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**SESSION 2: AI ALGORITHMS****SESSION CHAIR: SHERIF ABDELFAH (BRADLEY UNIVERSITY, USA)****SESSION TIME: 9:30 AM – 11:00 AM (DAY 1: 20th May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9.30 AM – 9.45 AM	<b>1571273690</b>	wRIST: Robotic Intermediate Sign Translator for Humanoid Robot Speech-to-Sign Language Translation	Morgan Montz, Eric May, Shawn Acheampong, Evan Vastakis, Chetan Jaiswal, Cameron J. LaMack and Rongyu Lin (Quinnipiac University, USA)
9.45 AM – 10.00 AM	1571262884	HiMAP: Hierarchical Human-in-the-Loop Multi-Agent Reinforcement Learning for Collaborative Path Planning	Yuan Xing, Abhishek Verma and Cheng Chih Liu (University of Wisconsin-Stout, USA); Haowen Pan (Changzhou Voyage Electronics Technology LLC, China); David Ding, Haoyu Qian, Yida Bao, Wei Yao, Colter Feddersen and Connor Dean (University of Wisconsin-Stout, USA)
10.00 AM -10.15 AM	1571273421	Low-Cost Speech Enhancement Using U-Net Denoising on a Raspberry Pi	Cheol-Hong Min and Corissa Uberecken (University of St. Thomas, USA); Kundan Nepal (University of St. Thomas, USA & University of St Thomas, USA)
10.15 AM -10.30 AM	1571273813	Automated Digitization of Scientific Graphs for Retrieval-Augmented Language Model Analysis	Dan Walczak and Montgomery Longtin (University of St. Thomas, USA); Kundan Nepal (University of St. Thomas, USA & University of St Thomas, USA); Cheol-Hong Min (University of St. Thomas, USA); Hassan Salamy (University of Saint Thomas, USA); Abe F Kazemzadeh (University of St. Thomas, USA)
10:30 AM – 10:45 AM	1571273775	Machine Learning for Bandgap Regression and Classification in Strained Diamond from First-Principles Descriptors	Utku Ugur Kayis, Md Masrur Hossain Rakin, Rashik Shadman, Nathan Rabelo Martins, Luisa Scolfaro and Damian Valles (Texas State University, USA)
10:45 AM – 11:00 AM	1571273790	Autonomous Exploration of Complex Industrial Environments Using an IMPALA-Derived Convolutional Encoder and PPO	Erich S Ellsworth and Damian Valles (Texas State University, USA)

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**SESSION 3: MACHINE VISION, CLOUD AND AI ALGORITHMS****SESSION CHAIR: NAIMA KAABOUCH (UNIVERSITY OF NORTH DAKOTA, USA)****SESSION TIME: 9:30 AM – 11:00 AM (DAY 1: 20th May 2026) [ROOM NO. – 309]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9.30 AM – 9.45 AM	1571273116	American Sign Language Humanoid Robot	Kieran Boyle, Nicholas Farrell, Alexander Michel, Zachary O'Connell, Cade Wetter, Chetan Jaiswal and Cameron J. LaMack (Quinnipiac University, USA)
9.45 AM – 10.00 AM	1571273801	Multimodal Neuromorphic Computing for Cancer Diagnosis: Architecture, Clinical Fusion and Energy Analysis	Shruti Bhandari and Md Shaba Sayeed (Arkansas Tech University, USA); Tolga Ensari (Arkansas Tech University, Russellville, Arkansas, Algeria); Robin Ghosh and Sanjog Dhakal (Arkansas Tech University, USA)
10.00 AM -10.15 AM	1571274034	Lightweight Object Detection for Real-Time Lunar Rover Navigation Using Diffusion-Generated Synthetic Images	Jordan Nakamoto and Nansong Wu (Sonoma State University, USA); Kaiman Zeng (California State University Stanislaus, USA); Spencer Odom and Gurman Gill (Sonoma State University, USA)
10.15 AM -10.30 AM	<b>1571275802</b>	Machine Learning-Based Prediction of Scaffolding Risk: A Leakage-Controlled Survey Framework Integrated with BIM and AI for Proactive Construction Safety	Martha Chishimba (Taiyuan University of Technology, China)
10:30 AM – 10:45 AM	<b>1571264366</b>	Scalable E-Commerce Infrastructure as a Critical Digital System: Platform Scale, Intelligence, and Compliance at Market Level	Sureshkumar Karuppuchamy (EBAY Inc, USA)
10:45 AM – 11:00 AM	<b>1571273826</b>	Graph-Constrained Privacy-Preserving Entity Resolution with Algebraic Identity Lifecycle: An Experimental Study	Kesava Manikanta Chirumamilla and Abdus Salam Siddique (Arkansas Tech University, USA); Pavan Kumar Rama (USA)

**11.00 AM- 11.30 AM****COFFEE BREAK****All the timings are given in Pacific Daylight Time (PDT (UTC–07))**

**KEYNOTE SESSION [DAY 1: 20<sup>TH</sup> MAY 2026]**

TIME	NAME OF THE EVENT
11:30 AM – 12:15 PM	<p><b>KEYNOTE ADDRESS BY PROF. NALINI VENKATASUBRAMANIAN (UNIVERSITY OF CALIFORNIA, IRVINE)</b></p> <p><b>TITLE OF TALK: TOWARDS AI-ENABLED CYBERPHYSICALHUMAN INFRASTRUCTURES</b></p> <p><b>[ROOM NO. – 3AB]</b></p>
12:15 PM – 1:00 PM	<p><b>KEYNOTE ADDRESS BY DR. KIRAN TOMLINSON (SENIOR RESEARCHER, MICROSOFT RESEARCH)</b></p> <p><b>TITLE OF TALK: WORKING WITH AI: MEASURING THE APPLICABILITY OF GENERATIVE AI TO OCCUPATIONS</b></p> <p><b>[ROOM NO. – 3AB]</b></p>

1:00 PM-2:00 PM	<b>LUNCH BREAK</b>
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<p><b>Tutorial on Aspects of Virtual Reality By Dr. Phillip Bradford (University of Connecticut, Stamford, USA)</b></p>	<p><b>2.00 PM- 5.00 PM [ROOM NO. – 307]</b></p>
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**SESSION 4: AI ALGORITHMS, IoT AND BIG DATA****SESSION CHAIR: AREF SMILEY (UNIVERSITY OF ARIZONA, COLLEGE OF MEDICINE, USA)****SESSION TIME: 2:00 PM – 3:45 PM (DAY 1: 20th May 2026) [ROOM NO. – 3AB]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 PM – 2.15 PM	1571273970	Transfer Learning Architecture for Training Resource-Constrained Agents	Kenneth Mbale, Hubert Kyeremateng-Boateng, Anthony Herron, Abraham Tadesse Ewnetu, Matthew Akinmolayan, Yao Houkpati, Tobiloba Ayodeji, Trinity Bowling, Oluwabukunmi Jaiyeola, Seonho Choi and Darsana P Josyula (Bowie State University, USA)
2.15 PM – 2.30 PM	1571273809	Proactive Support Vector Machine - a Comprehensive Methodology for Smart, Stable, and Secure Grids	Brook Abegaz (Loyola University Chicago, USA)
2.30 PM - 2.45 PM	1571273805	The Advanced Health Risk Predictor: Ensemble Machine Learning System for Multi Disease Clinical Decision Support	Shruti Bhandari, Sanjog Dhakal, Robin Ghosh and Md Shaba Sayeed (Arkansas Tech University, USA); Bikal Lamichhane (Medisight AI, USA)
2.45 PM – 3.00 PM	1571274726	CostRoute: Output-Cost-Dominant Pre-Dispatch Routing for Multi-Provider Large Language Model APIs	Amit Dubey (IEEE, USA)
3.00 PM – 3.15 PM	1571265101	A Governance-Centric Framework for Assessing Fairness and Transparency in AI Algorithms	Muneeb Imran Shaikh (AI Governance Expert, Saudi Arabia); Taha Sajid (Echostar)
3.15 PM - 3.30 PM	1571276061	Detecting Socioeconomic Boundary Effects on Crime Concentration Using Persistent Homology: A Multi-Attribute Filtration Approach Applied to Vancouver, Canada	Andrew J. Park and Tanya Aggarwal (Trinity Western University, Canada); Patricia L. Brantingham (Simon Fraser University, Canada)

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**SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: SHERIF ABDELFAHATTAH (BRADLEY UNIVERSITY, USA)****SESSION TIME: 2:00 PM – 3:45 PM (DAY 1: 20th May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 PM – 2.15 PM	1571273219	Swarm Robotics Coordination for Warehouse Automation Using Distributed Pattern Recognition	Dinesh Kumar Elumalai (American Honda Motor Co, USA); Ramya Rajan (USA)
2.15 PM – 2.30 PM	1571266916	A Structured State Space Sequence Model for Multi-Class Classification of Malware	Emmanuela Andam, Naima Kaabouch, Rana Shaaban and Emanuel S Grant (University of North Dakota, USA)
2.30 PM - 2.45 PM	1571258301	Data-Driven Phishing Attack Detection Using Optimized Feature Engineering	Tharun Kumar Govind and Gahangir Hossain (University of North Texas, USA)
2.45 PM – 3.00 PM	1571279201	On Temporal Reweighting of Synchronization Losses for Music-Driven Conducting Motion Generation	Daiwik Bhola (Trinity Western University, Canada); Herbert H Tsang (Trinity Western University, Canada & Simon Fraser University, Canada)
3.00 PM – 3.15 PM	1571270452	Diagnosis of Ulcerative Colitis Using Supervised Machine Learning	Isabella McMahon and Venkata Margapuri (Villanova University, USA)
3.15 PM - 3.30 PM	1571273787	MPS Tensor Compression for Foundation Model Deployment on TinyIoT Edge Devices	Dinesh Kumar Elumalai (American Honda Motor Co, USA); Ramya Rajan (USA)
3.30 PM - 3.45 PM	<b>1571273830</b>	Agentic Purchase: A Trust-Aware Multi-Agent Framework for Autonomous E-Commerce with Live Marketplace Integration	Kranthi Gadi, Sai Ram Reddy Solleti, Karthisri Meghana Guntupalli and Ashok Vardhan Raja (Purdue University Northwest, USA)

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**SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**SESSION CHAIR: AREF SMILEY (UNIVERSITY OF ARIZONA, COLLEGE OF MEDICINE, USA)**

**SESSION TIME: 2:00 PM – 3:45 PM (DAY 1: 20th May 2026) [ROOM NO. – 309]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571273837	Enhancing Spatial and Temporal Coverage of Soil Moisture Estimation Using Satellite and Weather-Driven Machine Learning	Jakob Balkovec, Kerry Cheon, Daniel Kirov-Tomilov, Wai Nam Lo and Gina Philipose (Seattle University, USA); Xin Zhou (AITech University, China); Shiny Abraham and Lin Li (Seattle University, USA)
2.15 PM – 2.30 PM	1571267977	A Comparative Evaluation of Tree-Based Ensemble Methods and Transformers for IoMT Intrusion Detection	Koffi Regis Oswald Adohinzi (Dakota State University, USA); Youssef Harrath (Dakota State University, USA & Beacom College of Computer and Cyber Sciences, USA); Jihene Kaabi and Ahmad T. Al-Hammouri (Dakota State University, USA)
2.30 PM - 2.45 PM	<b>1571275120</b>	Toward Clinically Relevant and Interpretable EEG Seizure Detection: A Comparison of Random Forest and XGBoost	Mahesh Khadatare (NVIDIA, USA); Pragati S Dharmale (San Francisco Bay University, USA & San Jose City College, USA); Maadhav Govil and Harshita Vohra (Research, USA)
2.45 PM – 3.00 PM	1571272197	Web-Based Machine Learning Application for Automated Railroad Defect Detection	Hwapyeong Song, Andrew d'Arms, Aayush Damai, Van Trung Le, Shiyu Liu, Dylan Lester, Husnu S Narman, Ammar Alzarrad and Pingping Zhu (Marshall University, USA)
3.00 PM – 3.15 PM	1571273416	Foundation Model for Bone-Related Radiographs	Ali Tamizifar (Isfahan University of Technology, Iran); Shakiba Berenjkoub (Electrical and Computer Engineering Isfahan University of Technology Iran, Iran); et. Al.
3.15 PM - 3.30 PM	1571270401	Vegetation-Aware Automated Railroad Gauge Measurement Using Depth Sensors: Integration and Performance Evaluation	Van Trung Le, Hwapyeong Song, Aayush Damai, Shiyu Liu, Husnu S Narman, Ammar Alzarrad and Pingping Zhu (Marshall University, USA)
3.30 PM - 3.45 PM	1571273814	SmartSpend: A Unified Artificial Intelligence Powered Personal Finance Dashboard Integrating Fraud Detection, Spending Forecasting and Budget Recommendation	Shruti Bhandari, Sanjog Dhakal and Robin Ghosh (Arkansas Tech University, USA)

**3:30 PM- 4:00 PM**

**COFFEE BREAK**

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**SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: NAIMA KAABOUC (UNIVERSITY OF NORTH DAKOTA, USA)****SESSION TIME: 4:00 PM – 5:30 PM (DAY 1: 20th May 2026) [ROOM NO. – 307]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4.00 PM – 4.15 PM	1571272116	Weight Pruning Amplifies Bias: A Multi-Method Study of Compressed LLMs for Edge AI	Plawan Kumar Rath and Rahul Maliakkal (Meta Platforms Inc., USA)
4.15 PM – 4.30 PM	1571273834	Addressing Class Imbalance in MRI-Based Alzheimer's Diagnosis Using WGAN-GP	Jiya Prashant Desai (California State University Fullerton, USA); Ava P George (Fullerton College, USA); Akshat Sureshbhai Desai (California State University Fullerton, USA); Rakeshkumar Mahto (California State University, Fullerton, USA)
4.30 PM – 4.45 PM	1571273835	CaltransGPT Using Retrieval-Augmented Large Language Models in Transportation Agencies	Rajnish Lekhi and Akshat Sureshbhai Desai (California State University Fullerton, USA); Rakeshkumar Mahto (California State University, Fullerton, USA); Deepak K Sharma (California State University Fullerton, USA)
4.45 PM - 5.00 PM	1571273477	Privacy-Aware Health Digital Twins Using Centralized Differential Privacy and Tabular VAE	Sandra Kumi (University of Saskatchewan, Canada); Madhurima Ray (Pennsylvania State University, USA); Christopher A Cann and Richard K Lomotey (The Pennsylvania State University, USA); Ralph Deters (University of Saskatchewan, Canada & Saskatoon, Canada)
5.00 PM – 5.15 PM	1571275118	Rethinking LLM Evaluation: A Comprehensive Survey, Taxonomy, and the Evaluation Trilemma	Vaibhavi Tiwari (Montclair State University, USA & NYC DOHMH, USA); Ramy Othman, Ola Suaifan and D Wang (Montclair State University, USA)
5.15 PM – 5.30 PM	1571273449	Quantum Convolutional Neural Network for Mammography Classification	Priyank Kalgaonkar and Qinwen Deng (Lafayette College, USA)

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**SESSION 8: SECURITY; COMPUTATIONAL INTELLIGENCE; ARTIFICIAL INTELLIGENCE TOOLS****SESSION CHAIR: BROOK ABEGAZ (LOYOLA UNIVERSITY CHICAGO, USA)****SESSION TIME: 4:00 PM – 5:30 PM (DAY 1: 20th May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4.00 PM – 4.15 PM	1571273511	Convergence of LLM Integration and Edge Intelligence in Decentralized IoT Ecosystems	Khushboo Bhatia (Google, USA)
4.15 PM – 4.30 PM	1571273840	Invisible Problem 2.4 GHz IoT Onboarding Failure in Unified SSID Wi-Fi Networks: Analysis and Predictive Intelligence Framework	Rohan Rajidi (Charter Communications, USA)
4.30 PM – 4.45 PM	1571272686	A Transformer-Based Detection and Instance Segmentation Pipeline for Cross-Domain Cattle Monitoring	Md Sakif Uddin Khan and Damian Valles (Texas State University, USA)
4.45 PM – 5:00 PM	<b>1571273786</b>	Beyond Single-Shot Detection: Overcoming Spatial Resolution Bottlenecks in Pollen Identification	Kshitij Samir Pingle and Marwan Ahmed (CSUF, USA); Kanika Sood (California State University, Fullerton, USA); Sara Johnson and Jin Woo Lee (CSUF, USA)
5:00 PM – 5:15 PM	1571269444	Underwater Semantic Communications for Pixel-Wise Image Reconstruction	Eunyoung Lim and Hojun Lee (Hoseo University, Korea (South)); Sooin Kim (Hoseo University, Korea (South), Korea (South)); Sanjin Park (Hoseo University, Korea (South))
5:15 PM – 5:30 PM	1571273806	ATU-Tutor: A RAG Based Socratic Tutoring System with Agentic AI Adaptive Assessment	Md Shaba Sayeed, Shaira Wajiha, Robin Ghosh, Abdus Salam Siddique and Shruti Bhandari (Arkansas Tech University, USA)

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

**SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: ANDREW J. PARK (TRINITY WESTERN UNIVERSITY, CANADA)****SESSION TIME: 4:00 PM – 5:15 PM (DAY 1: 20th May 2026) [ROOM NO. – 309]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4.00 PM – 4.15 PM	<b>1571273761</b>	SemGuard: A Hierarchical Shared Semantic Intelligence Architecture for Secure LLM Systems	Nino Gvazava and Rasib Khan (Northern Kentucky University, USA)
4.15 PM – 4.30 PM	1571272633	A Semi-Supervised Anomaly Detection Framework for Electricity Theft Using Optimized Feature Selection	Kyungwon Shin and Ruobin Qi (California State University, Northridge, USA)
4.30 PM – 4.45 PM	1571273537	AdaptBio: Drift-Aware on-Device Learning for Invasive Species Acoustic Monitoring	Ravi Gupta (AI Researcher); Mayank Kumar Raunak (Intel Corporation, USA); Yunus Akhtar (Researcher)
4.45 PM - 5.00 PM	1571273869	BLADE: Bandit-Guided Diffusion Model Inference for Industrial IoT	Ravi Gupta and Shabista Shabista (AI Researcher)
5.00 PM – 5.15 PM	1571272296	Adversarial Robustness of CNN-Based Architectures for Deepfake Image Detection	Dhruv Vagadiya (California State University, Northridge, USA); Vijay Srinivas Tida (Saint John's University, USA); Ruobin Qi and Rashida Hasan (California State University, Northridge, USA)

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

**SESSION 10: COMPUTATIONAL INTELLIGENCE, ROBOTICS AND PARALLEL PROCESSING****SESSION CHAIR: CHEOL-HONG MIN (UNIVERSITY OF ST. THOMAS, USA)****SESSION TIME: 4:00 PM – 5:45 PM (DAY 1: 20th May 2026) [ROOM NO. – 3AB]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4.00 PM – 4.15 PM	1571273191	CADENCE: Context-Adaptive Depth Estimation for Navigation and Computational Efficiency	Timothy K Johnsen (University of California, Irvine & San Diego State University, SETI Institute, Lawrence Berkeley National Labs, USA); Marco Levorato (University of California, Irvine, USA)
4.15 PM – 4.30 PM	1571272229	Attention-Based Multi-Agent Reinforcement Learning for Battery-Constrained Orbital Task Coordination with Fault-Tolerant Retasking	Matthew Akinmolayan, Darsana P Josyula and Tobi Ayodeji (Bowie State University, USA)
4.30 PM – 4.45 PM	1571273765	Soft Pneumatic Haptic Glove for Gesture Recognition and Motor Correction	Shokoufeh Davarzani, Maryam Ravan and Reza K. Amineh (New York Institute of Technology, USA)
4.45 PM - 5.00 PM	1571273789	CADRI: An Adaptive Multimodal Interface for Reducing Cognitive Load in Robot-Assisted Disaster Response	Saifuddin Mahmud, Sherif Abdelfattah, Hanith Tummalapalli and Katherine McLaughlin (Bradley University, USA)

**All the timings are given in Pacific Daylight Time (PDT (UTC-07))****Day 2: 21st May 2026**

<b>TIME</b>	<b>PARALLEL SESSION</b>
9:30 AM-11:00 AM	SESSION 11: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 307]
9:30 AM-11:00 AM	SESSION 12: ML, CLOUD COMPUTING AND PATTERN RECOGNITION [ROOM NO- 308]
9:30 AM-11:00 AM	SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 309]
11:00 AM - 11:30 AM	COFFEE BREAK
11:30 AM – 1.00 PM	KEYNOTE SESSION [ROOM NO- 3AB]
1.00 PM - 2:00 PM	LUNCH BREAK
2:00 PM – 5:00 PM	TUTORIAL 1: APPLICATIONS ON GENERATIVE AI [ROOM NO. 307]
2.00 PM–3:30 PM	SESSION 14: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 308]
2.00 PM–3:30 PM	SESSION 15: COMPUTER GRAPHICS AND SOFTWARE ENGINEERING [ROOM NO- 3AB]
2.00 PM–3:30 PM	SESSION 16: SECURITY, TRUST AND PRIVACY [ROOM NO- 309]
3:30 PM-4.00 PM	COFFEE BREAK
4.00 PM- 5:45 PM	SESSION 17: SOFTWARE ENGINEERING AND IOT PROTOCOLS [ROOM NO- 307]
4:00 PM- 5:30 PM	SESSION 18: SECURITY FOR IOT [ROOM NO- 308]
4:00 PM- 6:15 PM	SESSION 19: AUTOMATIC CONTROL, DATA MINING AND IoT [ROOM NO. – 309]

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

**SESSION 11: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: PLAWAN KUMAR RATH (META PLATFORMS INC., USA)****SESSION TIME: 9:30 AM-11:00 AM (DAY 2: 21st May 2026) [ROOM NO. – 307]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9.30 AM – 9.45 AM	<b>1571273766</b>	AgentiX: An Agentic Architecture for Adaptive and Context-Aware Cybersecurity Management	Isha Nepal, Rasib Khan and Preshika Basnet (Northern Kentucky University, USA)
9.45 AM – 10.00 AM	<b>1571273770</b>	SpAudiX: A Hierarchical Edge Framework for Spatial Audio Sensing and Monitoring Applications	Nathaniel Brewer and Rasib Khan (Northern Kentucky University, USA)
10.00 AM -10.15 AM	1571246001	Multi-Class Plant Disease Classification with Synthetic Co-Infection Data Using YOLOv11	Sajid Ahmed (Sam Houston State University, USA); Madhab Chandra Das (Sam Houston State University, USA & Washington University of Science and Technology, USA); Ayodeji Sulaiman Yahaya, Min Kyung An and Kaitlin Hopkins (Sam Houston State University, USA)
10.15 AM -10.30 AM	1571273986	A Modality-Agnostic Definition of Multi-Modal Hallucination	Sakhawat Hossan (UNC Greensboro, USA); Qianqian Tong (UNCG, USA); Jing Deng (UNC Greensboro, USA)
10:30 AM – 10:45 AM	1571275915	PARA: A Production Agentic Readiness Assessment Framework for Closing the Enterprise AI Deployment Gap	Saurabh Yergattikar (USA)
10:45 AM – 11:00 AM	1571276245	Edge-TSFM: A Systematic Review and Deployment Decision Framework for Time-Series Foundation Models on Resource-Constrained IoT Hardware	Saurabh Yergattikar (USA)

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

**SESSION 12: ML, CLOUD COMPUTING AND PATTERN RECOGNITION****SESSION CHAIR: SHARON TETTEGAH (UNIVERSITY OF CALIFORNIA, SANTA BARBARA, USA)****SESSION TIME: 9:30 AM-11.00 AM (DAY 2: 21st May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9.30 AM – 9.45 AM	<b>1571275718</b>	Hybrid Deep Learning and Behavioral Inconsistency Detection for Secure VANET Routing Against Blackhole and DDoS Attacks	Eden Teshome Hunde (Jimma University, Ethiopia & Vrije Universiteit Brussel (VUB), Belgium); Shereen Ismail (University of Michigan, USA & Merit Network, Inc., USA)
9.45 AM – 10.00 AM	1571281848	Privacy-Enhancing Continuous Testing Architecture for Secure API Ecosystems in Distributed Retail Platforms	Satish Reddy Budati (RICEFW Tech, USA)
10.00 AM -10.15 AM	<b>1571276254</b>	Bridging High-Level Intent and Network Execution: Detecting Violations and Intent Drift Through Low-Level Traffic Analysis	Tonia Haikal (Texas A&M University, USA); Shereen Ismail (University of Michigan, USA & Merit Network, Inc., USA); Eman Hammad (University of Toronto, Canada & Texas A&M University, USA)
10.15 AM -10.30 AM	1571270433	Algebra of Cryptographic Collisions	Sai Ranganath Mikkilineni (Delaware State University, USA); Azka Ghaffar and Julian Thiele-Pissini (USA); Albert H Carlson (Quantum Security Alliance, USA); Mandeep Singh (USA); Christopher Briscoe (Emet Classical Academ, USA)
10:30 AM – 10:45 AM	<b>1571273764</b>	TEDS: Enabling Temporal Data Storage in Scalable Edge Computing Architectures	Dalton Matheu and Rasib Khan (Northern Kentucky University, USA)

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

**SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: AREF SMILEY (UNIVERSITY OF ARIZONA, COLLEGE OF MEDICINE, USA)****SESSION TIME: 9:30 AM-11:00 AM (DAY 2: 21st May 2026) [ROOM NO. – 309]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9.30 AM – 9.45 AM	1571273883	Multi-Stream GCN with Instability Descriptors and Gated Fusion for Real-World Fall Detection	Sherif Abdelfattah and Saifuddin Mahmud (Bradley University, USA); Christopher Zallek (OSF HealthCare, USA); Niharika Miriyala, Pipriya Deshpande, Katherine McLaughlin and Antonio Andrade-Fernandez (Bradley University, USA)
9.45 AM – 10.00 AM	1571273886	Personalized Clustered Federated Reinforcement Learning for Insulin Delivery Under Heterogeneous Type 1 Diabetes Conditions	Sherif Abdelfattah, Rahul Biswa Karma, Rohit Biswa Karma and Mukesh Gogineni (Bradley University, USA)
10.00 AM -10.15 AM	1571270126	Depth-Enhanced YOLO-SAM2 Detection for Reliable Ballast Insufficiency Identification	Shiyu Liu, Dylan Lester, Hwapyeong Song, Aayush Damai, Husnu S Narman, Ammar Alzarrad and Pingping Zhu (Marshall University, USA)
10.15 AM -10.30 AM	<b>1571272878</b>	Difference Map-Gated Classifier for Ensemble Segmentation of the Glottis Region	Amir Hosein Kamali (Iran); Behzad Mirmahboub and Nader Karimi (Isfahan University of Technology, Iran); Pejman Khadivi (Seattle University, USA); Shahram Shirani (McMaster University, Canada); Shadrokh Samavi (Seattle University, USA)
10:30 AM – 10:45 AM	<b>1571273457</b>	ADFF-Net: An Adaptive Dynamic Feature Fusion Network for Skin Lesion Segmentation	Zahra Ghorbani (Iran); Nader Karimi and Behzad Mirmahboub (Isfahan University of Technology, Iran); Pejman Khadivi and Shadrokh Samavi (Seattle University, USA)
10:45 AM – 11:00 AM	1571273782	Optical Character Recognition for Handwritten Pieces and Graphical Imagery	Peter Chau and Sheikh Sabah (CSUF, USA); Kanika Sood (California State University, Fullerton, USA); Manvir Dhillon (CSUF, USA)

**11:00 AM–11:30 AM****COFFEE BREAK****All the timings are given in Pacific Daylight Time (PDT (UTC–07))**

**KEYNOTE SESSION [DAY 2: 21st MAY 2026]**

<b>TIME</b>	<b>NAME OF THE EVENT</b>
11:30 AM–12:15 PM	<p align="center"><b>KEYNOTE ADDRESS BY <b>PROF. GARRISON W. COTTRELL</b></b>  <b>(UNIVERSITY OF CALIFORNIA, SAN DIEGO)</b></p> <p align="center"><b>TITLE OF TALK: <b>SPECTRE- A SPECTRAL TRANSFORMER FOR MOLECULE IDENTIFICATION</b></b></p> <p align="center"><b>[ROOM NO. 3AB]</b></p>
12:15 PM - 1:00 PM	<p align="center"><b>KEYNOTE ADDRESS BY <b>DR. RAJESH PAREKH</b></b>  <b>(VICE PRESIDENT OF AI/ML, INTUIT)</b></p> <p align="center"><b>TITLE OF TALK: <b>FROM “DO-IT-YOURSELF” TO “DONE-FOR-YOU”: ARCHITECTING AI AND HUMAN INTELLIGENCE FOR 100 MILLION CUSTOMERS</b></b></p> <p align="center"><b>[ROOM NO.- 3AB]</b></p>

1:00 PM-2.00 PM	LUNCH BREAK
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<p align="center"><b>TUTORIAL ON          APPLICATIONS ON GENERATIVE AI BY          SUDIPTA SAHANA (UNIVERSITY OF ENGINEERING AND MANAGEMENT,          KOLKATA)</b></p>	<p align="center"><b>2.00 PM – 5.00 PM</b>  <b>[ROOM NO. – 307]</b></p>
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**All the timings are given in Pacific Daylight Time (PDT (UTC–07))**

## PARALLEL SESSIONS

### SESSION 14: ARTIFICIAL INTELLIGENCE AND IoT

SESSION CHAIR: PEJMAN KHADIVI (SEATTLE UNIVERSITY, USA)

SESSION TIME: 2:00 PM–3:00 PM (DAY 2: 21st May 2026) [ROOM NO. – 308]

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571273952	Vertical Integration of Agentic AI into IoT	Ralph Deters (University of Saskatchewan, Canada & Saskatoon, Canada); Sandra Kumi (University of Saskatchewan, Canada)
2.15 PM – 2.30 PM	1571270491	From Code Understanding to Multi-Agent Collaboration: A Layered Protocol Stack for Modern AI Intelligent Systems	Arijet Sarker (Florida Polytechnic University, USA); Xianping Wang (Fayetteville State University, USA)
2.30 PM – 2.45 PM	1571273845	SenseCLLM: A Three-Agent Edge-Resident Framework for Adaptive PII Detection and Selective Anonymization in IoT-to-LLM Pipelines	Huzaif Khan (California State University Dominguez Hills, USA); Ghazal Mahdian and Ali Jalooli (California State University, Dominguez Hills, USA)

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

**SESSION 15: COMPUTER GRAPHICS AND SOFTWARE ENGINEERING****SESSION CHAIR: SATISH REDDY BUDATI (RICEFW TECH, USA)****SESSION TIME: 2:00 PM–3:30 PM (DAY 2: 21st May 2026) [ROOM NO. – 3AB]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 PM – 2.15 PM	1571279123	A Data-Driven Simulation Framework for Urban Rail Systems Under Event-Driven Demand: A Case Study of Vancouver's SkyTrain	Aiden Evans (Trinity Western University, Canada); Ryan Ficocelli (Canada); Andrew J. Park (Trinity Western University, Canada)
2.15 PM – 2.30 PM	1571273871	Operationalizing AI Governance: A System-Oriented Analysis of Implementation Mechanisms, Failure Modes, and Architectural Primitives	Soumyajyoti Bhattacharya (PayPal, USA); Srishti Rawal (Salesforce, USA)
2.30 PM – 2.45 PM	1571269798	Customizable Type-Checking for Language Extensions in Wyvern: Enforcing Secure Architectural Constraints in Enterprise Software	Shubham Anandani and Jonathan Aldrich (Carnegie Mellon University, USA)
2.45 PM -3.00 PM	<b>1571273754</b>	Who Owns the Land? Blockchain as the Answer to Corruption and Fraud	Safal Marahatta and Kritagya R Upadhyay (Middle Tennessee State University, USA)
3.00 PM – 3.15 PM	1571273758	Experimental Evaluation of Scheduling Effects on TinyML Inference on ESP32 Using FreeRTOS	Le Khue Nhat Anh (Metropolitan State University, USA); Sena Hounsinou (Metro State University, USA)

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

**SESSION 16: SECURITY, TRUST AND PRIVACY****SESSION CHAIR: RASIB KHAN (NORTHERN KENTUCKY UNIVERSITY, USA)****SESSION TIME: 2.00 PM–3:30 PM (DAY 2: 21st May 2026) [ROOM NO. – 309]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2:00 PM – 2:15 PM	1571268321	Addressing the Onchain Randomness Problem with Decentralized Offchain Entropy Providers	Allan Pedin, Alex Posey and Tyler Warburton (Randao.net, USA); Ayan Roy (Christopher Newport University, USA)
2:15 PM – 2:30 PM	1571273740	Revising the 1:1 Principle in Cryptography	Sai Ranganath Mikkilineni (Delaware State University, USA); Benjamin Williams (University of Idaho, USA); Mandeep Singh (USA); Robert E Hiromoto (University of Idaho, USA); Albert H Carlson (Quantum Security Alliance, USA); Christopher Briscoe (Emet Classical Academ, USA)
2:30 PM -2:45 PM	1571273796	Zero-Trust Gateway Protocol for Multi-Tenant AI Agents	Venkata phani Patelkhana (USA)
2:45 PM – 3:00 PM	1571265141	Analyzing Unsolicited Internet Traffic: Measuring IoT Security Threats via Network Telescopes	Shereen Ismail (University of Michigan, USA & Merit Network, Inc., USA); Taelyn Dyer (Washington State University at Tri-Cities, USA) et. Al.
3:00 PM – 3:15 PM	1571267918	Securing in-Vehicle Large Language Models: A Taxonomy of Integration, Threats, and Trustworthiness	Ayan Roy (Christopher Newport University, USA); Tyler Warburton (Randao.net, USA)

**3.30 PM- 4.00 PM****COFFEE BREAK****All the timings are given in Pacific Daylight Time (PDT (UTC–07))**

**SESSION 17: SOFTWARE ENGINEERING AND IOT PROTOCOLS****SESSION CHAIR: PEJMAN KHADIVI (SEATTLE UNIVERSITY, USA)****SESSION TIME: 4:00 PM - 5:15 PM (DAY 2: 21st May 2026) [ROOM NO. – 307]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4:00 PM – 4:15 PM	1571262360	A Hardware-in-the-Loop Validation Framework for Edge-AI Based Power Quality Monitoring	Soujanya Reddy Annapareddy (TAE, USA)
4:15 PM – 4:30 PM	1571261471	PQC-IRFF: A Post-Quantum Incident Response and Digital Forensics Framework for Higher Education	SumanthMalleth Guthi, Brady Lund and Gahangir Hossain (University of North Texas, USA)
4:30 PM – 4:45 PM	1571265457	Repeated Chirp Spread Spectrum Signal for Doppler Resistant Internet of Things (IoT) Applications Using LEO Satellites	Seema Sud (The Aerospace Corporation, USA)
4:45 PM – 5:00 PM	1571273083	Online Learning Based Server Selection in Peer-to-Peer Content Delivery Networks	Hadi Hosseini and Sam Shippey (Portland State University, USA); Alireza Keshavarz-Haddad (Shiraz University, Iran); Ehsan Aryafar (Portland State University, USA)
5:00 PM – 5:15 PM			

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

**SESSION 18: SECURITY FOR IOT****SESSION CHAIR: RASIB KHAN (NORTHERN KENTUCKY UNIVERSITY, USA)****SESSION TIME: 4:00 PM - 5:15 PM (DAY 2: 21st May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4:00 PM – 4:15 PM	<b>1571276246</b>	Impact of AI in the Vulnerability Management Domain - Current Research and Product Trends	Dereck Vicevich, Sethuraman Kuruvimalai and Shounak Palnitkar Jitendra (University of the Pacific, USA)
4:15 PM – 4:30 PM	1571273106	Characterizing AI-Assisted Bot Traffic in Darknet Data: Implications for ICS and IIoT Security	Alex Carbajal (Washington State University at Tri-Cities, USA); Caleb Faultersack and Jonahtan Vasquez (Washington State University, USA); Shereen Ismail (Merit Network, Inc., University of Michigan, Ann Arbor, MI 48108, USA); Asma Jodeiri Akbarfam (Washington State University, USA)
4:30 PM – 4:45 PM	1571262999	BEETS: A Unified Emotive Substrate for Responsible AIoT Governance	Sharon Tettegah (University of California, Santa Barbara, USA)
4:45 PM – 5:00 PM	1571273874	RCS-Fed: Rare-Class Contribution Scoring for Federated Intrusion Detection in IIoT	Charles Stolz (University of North Dakota, USA); Daniel Fiadzeawu (UND, USA); Jielun Zhang (University of North Dakota, USA); Sean Sullivan S and Fuhao Li (La Sierra University, USA)
5:00 PM – 5:15 PM	1571276142	Secure Boot for BLE IoT Devices: Experimental Evaluation on nRF52840 and Implications for EU RED and Cyber Resilience Act	Jatinkumar Bhatt (Marmon Foodservice Technologies Inc., USA); Kinjal Bhatt (Judson University, USA); Himansu Donga (India)

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

**SESSION 19: AUTOMATIC CONTROL, DATA MINING AND IoT****SESSION CHAIR: UMME ZAKIA (NEW YORK INSTITUTE OF TECHNOLOGY, VANCOUVER, CANADA & FATIGUE SCIENCE, CANADA)****SESSION TIME: 4:00 PM - 5:15 PM (DAY 2: 21st May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4:00 PM – 4:15 PM	1571273117	Optimization of PID Controller Using Genetic Algorithm (GA) for a 4-Dof Half-Car Active Suspension System	Hoang-Vuong Pham (University of Transport and communications, Vietnam); Tuan-Anh Bui (Hanoi University of Science and Technology, Vietnam); Trung H. Duong (Colorado State University Pueblo, USA)
4:15 PM – 4:30 PM	1571273851	A Multimodal IoT System for Monitoring Seated Leg Exercises in Home-Based Rehabilitation	Hongpeng Fu, An Nguyen, Madhu Babu Cherukuri and Sarita Singh (Northeastern University, USA)
4:30 PM – 4:45 PM	1571273737	Perspective of Patients with Dysautonomia on Home-Based Telerehabilitation	Aileen S Gabriel (The University of Arizona, USA); Joseph Finkelstein (University of Arizona, USA); Aref Smiley (University of Arizona, College of Medicine, USA); Patricia Goncalves Leite Rocco (University of Arizona, USA); Katie Johnson and Melissa M. Cortez (University of Utah, USA)
4:45 PM – 5:00 PM	1571273661	Resource-Efficient ISAC Scheduling for mmWave IoT Networks with Multi-Target Sensing Constraints	Syed Maaz Shahid (University of Ulsan, Korea (South)); Jacob Chakareski (New Jersey Institute for Technology, USA); Nicholas Mastronarde (University at Buffalo, USA); Sungoh Kwon (University of Ulsan, Korea (South))
5:00 PM – 5:15 PM	1571273812	Resource-Constrained Deep Post-Decision State Learning for Wireless Sensing System Scheduling	Ziyang Lu and Nicholas Mastronarde (University at Buffalo, USA); Jacob Chakareski (New Jersey Institute for Technology, USA)

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

## Day 3: 22<sup>nd</sup> May 2026

TIME	PARALLEL SESSION
9:30 AM - 11:00 AM	SESSION 20: SECURITY FOR IOT [ROOM NO- 307]
9:30 AM - 11:15 AM	SESSION 21: AI AND IOT SYSTEM ARCHITECTURE [ROOM NO- 308]
9:30 AM - 11:15 AM	SESSION 22: IOT ENABLING TECHNOLOGIES [ROOM NO- 309]
11:00 AM-11.30 AM	COFFEE BREAK
11:30 AM - 1:00 PM	KEYNOTE SESSION [ROOM NO- 3AB]
1:00 PM - 2.00 PM	LUNCH BREAK
2:00 PM – 3.30 PM	SESSION 23: AI AND ML [ROOM NO- 307]
2:00 PM – 3:30 PM	SESSION 24: ARTIFICIAL INTELLIGENCE [ROOM NO- 308]
2:00 PM – 3:30 PM	SESSION 25: ARTIFICIAL INTELLIGENCE [ROOM NO- 309]
3.15 PM - 3.30 PM	COFFEE BREAK
3.30 PM – 4.30 PM	VALEDICTORY SESSION

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

**SESSION 20: SECURITY FOR IOT****SESSION CHAIR:****SESSION TIME: 9:30 AM-11:00 AM (DAY 3: 22nd May 2026) [ROOM NO. – 307]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9:30 AM – 9:45 AM	1571273803	Feature Engineering and Ensemble Methods for Imbalanced ICS Intrusion Detection: Pipeline Audit and Constrained Evaluation	Kazi Fazlee Rabbi, Helen H Lou and Xingya Liu (Lamar University, USA)
9:45 AM -10:00 AM	1571275905	HalluGuard: A Multi-Signal Detection Framework for Hallucinations in LLM-Generated Code	Hasan Md Imran and Jacob Hauenstein (The University of Alabama in Huntsville, USA)
10:00 AM – 10:15 AM	1571267183	DPDP Act Compliance as a Proactive Security Framework: A Hypothesis-Driven Analysis for Industrial IoT Data Lifecycle	Megha Saini (RRU, India); Dharati Dholariya (Rashtriya Raksha University & Maulana Azad University, India)
10:15 AM -10:30 AM	<b>1571269145</b>	Beyond Detection: Trustworthy Agentic AI for Resilient IoT Security Operations	Shideh Yavary Mehr, Saltuk Karahan and Malik A. Gladden (Old Dominion University, USA)
10:30 AM – 10:45 AM	<b>1571273811</b>	On the Study of ANOVA-Based ML Feature Selection in Malicious Network Traffic Detection	Corissa Uberecken and Cheol-Hong Min (University of St. Thomas, USA)
10:45 AM-11:00 AM	1571276260	Resilience Analysis of Cloud-Controlled Cyber-Physical Systems Using a Reinforcement Learning Cartpole Testbed	Imran Jahid Khan, Maliha Hossain, Mohammad A Rahman and Fan Wu (Tuskegee University, USA)

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

**SESSION 21: AI AND IOT SYSTEM ARCHITECTURE****SESSION CHAIR:****SESSION TIME: 9:30 AM-11:15 AM (DAY 3: 22nd May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9:30 AM – 9:45 AM	<b>1571273681</b>	A Two-Stage Transformer-Based Framework for Command-Line Classification and MITRE ATT&CK Technique Mapping	Ahmed Khan (New York Tech, Vancouver, BC, Canada); Umme Zakia (New York Institute of Technology, Vancouver, Canada & Fatigue Science, Canada)
9:45 AM -10:00 AM	<b>1571265583</b>	PACT: An AI-Driven Framework for Organizational Cybersecurity Using LLM-Based Prediction, Risk Assessment and Adaptive Training	Shideh Yavary Mehr and Saltuk Karahan (Old Dominion University, USA)
10:00 AM – 10:15 AM	<b>1571273696</b>	Automated ML-Based Cyber Threat Intelligence Mapping to the MITRE ATT&CK Framework	Qamaruddin Mohammed (New York Tech, Vancouver, BC, USA); Abdul Gaffar Musab Syed and Reshma Sultana (New York Institute of Technology, USA); Umme Zakia (New York Institute of Technology, Vancouver, Canada & Fatigue Science, Canada)
10:15 AM -10:30 AM	<b>1571273448</b>	Graph2Proof: Topology-Aware Reward Shaping for Natural Language Theorem Proving	Wenhao Lu (Millburn High School, USA)
10:30 AM – 10:45 AM	<b>1571276283</b>	Open-Source Next Gen Endpoint Detection & Response	Ahmed Khan (New York Tech, Vancouver, BC, Canada); Umme Zakia (New York Institute of Technology, Vancouver, Canada & Fatigue Science, Canada)
10:45 AM-11:00 AM	1571275682	Implementing IoT Architecture for Home-Based Physical Telerehabilitation	Aref Smiley (University of Arizona, College of Medicine, USA); Joseph Finkelstein (University of Arizona, USA)

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

**SESSION 22: IOT ENABLING TECHNOLOGIES**

**SESSION CHAIR:**

**SESSION TIME: 9:30 AM-11:15 AM (DAY 3: 22nd May 2026) [ROOM NO. – 309]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
9:30 AM – 9:45 AM	1571273469	Radar-Based Detection of Heart Sounds for Non-Contact Cardiac Timing: A Multi-Subject Evaluation Under Physiological Variability	Aref Smiley (University of Arizona, Colledge of Medicine, USA); Joseph Finkelstein (University of Arizona, USA)
9:45 AM -10:00 AM	1571273842	Wi-Fi Evolution and IoT Interoperability Challenges: A Cloud-Based Agentic AI Framework for Intelligent Network Management	Rohan Rajidi (Charter Communications, USA)
10:00 AM – 10:15 AM	<b>1571273827</b>	Development of a Soft Robotic Tendon-Driven Arm for Extraterrestrial Precision Pollination	Vihan Aggarwal (Millburn High School, USA)
10:15 AM -10:30 AM	1571273551	BridgeSafe: An Event-Driven IoT Architecture for Real-Time Overheight Vehicle Detection and Alerting	Sumesh Surendran Letha and Venkata Margapuri (Villanova University, USA)
10:30 AM – 10:45 AM	1571273862	A Contract-First Application Layer Architecture for Multi-Device, Multi-Role Healthcare IoT Systems	Teja Papadasu, Madhu Babu Cherukuri, Sri Santoshi Durga Tanmayee Bulusu, Zexi Zhang, Tsvetelina Hristova and Sarita Singh (Northeastern University, USA)
10:45 AM-11:00 AM	1571273853	Sensing-to-Decision: A Low-Cost, Privacy-Centric Edge Framework for Objective Parkinsonian Tremor and Bradykinesia Quantification	An Nguyen, Hongpeng Fu, Madhu Babu Cherukuri and Sarita Singh (Northeastern University, USA)
11:00 AM – 11.15 AM	1571273097	Conceptualizing an Edge-Based Local Guidance Framework Unifying Mobile Sensing with LLMs	Gabriel A Morales and Rocky Slavin (University of Texas at San Antonio, USA)

**11.00 AM – 11.30 AM**

**COFFEE BREAK**

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

**KEYNOTE SESSION [DAY 3: 22<sup>nd</sup> May 2026]**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	
11:30 AM–12:15 PM	<p align="center"><b>KEYNOTE ADDRESS BY PROF. LIFENG LAI (UNIVERSITY OF CALIFORNIA, DAVIS)</b></p> <p align="center"><b>TITLE OF TALK: RISK-SENSITIVE REINFORCEMENT LEARNING WITH COHERENT RISK MEASURES</b></p> <p align="center"><b>[ROOM NO. – 3AB]</b></p>	
12:15 PM–1:00 PM	<p align="center"><b>KEYNOTE ADDRESS BY AURELIE SAADA (AI TRANSFORMATION, MICROSOFT, USA)</b></p> <p align="center"><b>TITLE OF TALK: TURNING AI INNOVATION INTO ENTERPRISE SCALE: WHY AI TRANSFORMATION IS A HUMAN PROBLEM</b></p> <p align="center"><b>[ROOM NO. – 3AB]</b></p>	
<b>LUNCH BREAK</b>		1.00 PM–2.00 PM

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

**SESSION 23: AI AND ML****SESSION CHAIR:****SESSION TIME: 2.00 PM -3.15 PM (DAY 3: 22nd May 2026) [ROOM NO. – 307]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2:00 PM – 2:15 PM	1571269434	Artificial Intelligence and Cryptography in Data Security	Susmit Sen (Vale Base Metals, Canada)
2:15 PM – 2:30 PM	1571273705	Systematic Benchmarking and Edge-Aware Selection of Compact Vision-Language Models for Blind and Low-Vision Navigation Assistance	Saranga Malshan Vithana Pathirana, Ramanayake Pathirannehelage Gayuru Kavin Ramanayake, Ushari Ranasinghe and Velmanickam Logeeshan (University of Moratuwa, Sri Lanka); Chathura Wanigasekara (German Aerospace Centre, Germany)
2:30 PM -2:45 PM	1571273776	AI-Based Psychotherapy and the Role of Physiological Sensors in Better Understanding the Patient	Robert Kong (Phillips Academy Andover, USA)
2:45 PM – 3:00 PM	1571269072	Making Brain-Computer Interfaces More Secure	Md Fahimul Kabir Chowdhury and Gahangir Hossain (University of North Texas, USA)

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

**SESSION 24: ARTIFICIAL INTELLIGENCE****SESSION CHAIR:****SESSION TIME: 2.00 PM – 3.15 PM (DAY 3: 22nd May 2026) [ROOM NO. – 308]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2:00 PM – 2:15 PM	1571271470	SQL-MCP: An AI-Powered Multi-LLM Framework for Autonomous Oracle Database Object Debugging Using GPT-4 and Claude	Mohankrishna Kothapalli (Oracle, USA); Dharanidhar Vuppu (SurveyMonkey, USA)
2:15 PM – 2:30 PM	1571272322	Binary Age Classification in NHANES: Investigating Systemic Bias in Age-Prediction Models Using Metabolic Markers	Eman Abdelfattah (Sacred Heart University, USA)
2:30 PM -2:45 PM	1571264125	Parallel Stream Transformer Based Architecture for Multimodal User Verification	Johny Xiong and Amith Kamath Belman (San Jose State University, USA)
2:45 PM – 3:00 PM	1571276238	Deep Learning for Personnel Detection in Underground Mines	Milka C I Madahana and John E.D Ekoru (University of the Witwatersrand, South Africa)
3:00 PM – 3:15 PM	1571273729	A Real-Time Wearable Virtual Keyboard Based on Inertial Finger Gesture Recognition	Don Mathusinghage Tharusha Ravindu Sandaruwan Mathusingha, Velmanickam Logeeshan (University of Moratuwa, Sri Lanka) et.al.

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

**SESSION 25: ARTIFICIAL INTELLIGENCE****SESSION CHAIR:****SESSION TIME: 2.00 PM – 3.00 PM (DAY 3: 22nd May 2026) [ROOM NO. – 309]**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2:00 PM – 2:15 PM	1571273849	Enhancing Grid Resilience Under Voltage Unbalance Using Phase-Wise Controlled Four-Leg Inverter with MCCF-PR Control	Sulith Perera, Thilina Shehan Kaushalya, Samod Dharmaraja, Velmanickam Logeeshan and S Kumarawadu (University of Moratuwa, Sri Lanka); Chathura Wanigasekara (German Aerospace Centre, Germany)
2:15 PM – 2:30 PM	1571273844	Enhanced Temporal Attention Based Hybrid Model for Non-Intrusive Load Monitoring	Shapthamuky Jeevakaran, Sakun Rasilka, Isuranga Srimal, S Kumarawadu and Velmanickam Logeeshan (University of Moratuwa, Sri Lanka); Chathura Wanigasekara (German Aerospace Centre, Germany)
2:30 PM -2:45 PM	1571273706	Balancing Performance and Feasibility in Selecting VLMs for Temporal Motion Understanding	Gayanuka Amarasuriya, Chathura Jayasinghe and Malitha Prabhashana (University of Moratuwa, Sri Lanka); et.al.
2:45 PM – 3:00 PM	1571263154	The Future of Automated Compliance: Designing Scalable Platforms for Regulatory Agility	Saikrishna Tarakampet (California's Correctional Healthcare Services, USA); Sameena Begam Savukath Ali (Southern New Hampshire University, USA); Girish Jambagi (Oracle America Inc, USA); Subhash Tatavarthi (Kasmo, USA)

**3.15 PM – 3.30 PM****COFFEE BREAK****VALEDICTORY  
SESSION****3.30 PM – 4.30 PM [ROOM NO. – 3AB]****All the timings are given in Pacific Daylight Time (PDT (UTC–07))**



