



WORLD AI IOT CONGRESS



IEEE AIoT 2026

2026 IEEE 7th Annual World AI IoT Congress (AIoT)

Seattle Convention Center, USA

20th -22nd 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))

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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 – 10.30 AM	SESSION 2: AI ALGORITHMS [ROOM NO- 308]
9:30 AM – 11:00 AM	SESSION 3: MACHINE VISION, AI ALGORITHMS [ROOM NO-309]
9:30 AM – 10.45 AM	SESSION 4: COMPUTATIONAL INTELLIGENCE,ROBOTICS AND PARALLEL PROCESSING [ROOM NO. – 3AB]
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 – 3:45 PM	SESSION 5: AI ALGORITHMS AND IoT [ROOM NO- 3AB]
2:00 PM – 3:30 PM	SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 308]
2:00 PM – 3:30 PM	SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 309]
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4:00 PM – 5:30 PM	SESSION 8: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [[ROOM NO- 307]
4:00 PM – 5:30 PM	SESSION 9: SECURITY; COMPUTATIONAL INTELLIGENCE; ARTIFICIAL INTELLIGENCE TOOLS [ROOM NO- 308]
4:00 PM – 5:30 PM	SESSION 10: : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [ROOM NO- 309]

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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	1571272357	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	1571273136	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 – 10.30 AM (DAY 1: 20th May 2026) [ROOM NO. – 308]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571273690	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	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)
10.15 AM -10.30 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:****SESSION TIME: 9:30 AM – 11:00 AM (DAY 1: 20th May 2026) [ROOM NO. – 309]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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	1571275802	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	1571264366	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	1571273826	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)

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SESSION 4: COMPUTATIONAL INTELLIGENCE, ROBOTICS AND PARALLEL PROCESSING**SESSION CHAIR: CHEOL-HONG MIN (UNIVERSITY OF ST. THOMAS, USA)****SESSION TIME: 9:30 AM – 10.45 AM (DAY 1: 20th May 2026) [ROOM NO. – 3AB]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	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)
9.45 AM – 10.00 AM	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)
10.00 AM -10.15 AM	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)
10.15 AM -10.30 AM	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)

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

KEYNOTE SESSION [DAY 1: 20TH MAY 2026]

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

1:00 PM-2:00 PM	LUNCH BREAK
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<p align="center">Tutorial on Aspects of Virtual Reality By Dr. Phillip Bradford (University of Connecticut, Stamford, USA)</p>	<p align="center">2.00 PM- 5.00 PM [ROOM NO. – 307]</p>
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SESSION 5: 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]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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	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); Cheol-Hong Min (University of St. Thomas, USA); Hassan Salamy (University of Saint Thomas, USA); Abe F Kazemzadeh (University of St. Thomas, USA)
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)
3.30 PM - 3.45 PM	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)

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SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: SHERIF ABDELFAH (BRADLEY UNIVERSITY, USA)****SESSION TIME: 2:00 PM – 3:30 PM (DAY 1: 20th May 2026) [ROOM NO. – 308]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 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)
2.15 PM – 2.30 PM	1571258301	Data-Driven Phishing Attack Detection Using Optimized Feature Engineering	Tharun Kumar Govind and Gahangir Hossain (University of North Texas, USA)
2.30 PM - 2.45 PM	1571279201	On Temporal Reweighting of Synchronization Losses for Music-Driven Conducting Motion Generation	Daiwik Bhol (Trinity Western University, Canada); Herbert H Tsang (Trinity Western University, Canada & Simon Fraser University, Canada)
2.45 PM – 3.00 PM	1571270452	Diagnosis of Ulcerative Colitis Using Supervised Machine Learning	Isabella McMahon and Venkata Margapuri (Villanova University, USA)
3.00 PM – 3.15 PM	1571273787	MPS Tensor Compression for Foundation Model Deployment on TinyIoT Edge Devices	Dinesh Kumar Elumalai (American Honda Motor Co, USA); Ramya Rajan (USA)
3.15 PM - 3.30 PM	1571273830	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)
3.30 PM - 3.45 PM	1571273219	Swarm Robotics Coordination for Warehouse Automation Using Distributed Pattern Recognition	Dinesh Kumar Elumalai (American Honda Motor Co, USA); Ramya Rajan (USA)

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SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR:

SESSION TIME: 2:00 PM – 3:30 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 Adohinzin (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	1571275120	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	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.

3:30 PM- 4:00 PM

COFFEE BREAK

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SESSION 8: 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]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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 9: 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]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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	1571273786	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)

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SESSION 10: 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]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571273761	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)
5:15 PM – 5:30 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)

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Day 2: 21st May 2026

TIME	PARALLEL SESSION
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: COMPUTER GRAPHICS AND SOFTWARE ENGINEERING [ROOM NO- 308]
2.00 PM–3:30 PM	SESSION 15: SECURITY, TRUST AND PRIVACY [ROOM NO- 309]
3:30 PM-4.00 PM	COFFEE BREAK
4.00 PM- 5:45 PM	SESSION 16: SOFTWARE ENGINEERING AND IOT PROTOCOLS [ROOM NO- 308]
4:00 PM- 5:30 PM	SESSION 17: SECURITY FOR IOT [ROOM NO- 309]
4:00 PM- 6:15 PM	SESSION 18: AUTOMATIC CONTROL, DATA MINING AND IoT [ROOM NO. – 3AB]

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]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571273766	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	1571273770	SpAudioX: 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]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571275718	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	1571276254	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	1571273764	TEDS: Enabling Temporal Data Storage in Scalable Edge Computing Architectures	Dalton Matheu and Rasib Khan (Northern Kentucky University, USA)
10:45 AM – 11:00 AM	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 Alzarad and Pingping Zhu (Marshall 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]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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	1571272878	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	1571273457	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
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All the timings are given in Pacific Daylight Time (PDT (UTC–07))

KEYNOTE SESSION [DAY 2: 21st MAY 2026]

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

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

PARALLEL SESSIONS

SESSION 14: 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. – 308]

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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	1571273754	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	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)
3:15 PM – 3:30 PM	1571273758	Experimental Evaluation of Scheduling Effects on TinyML Inference on ESP32 Using FreeRTOS	Le Khue Nhat Anh (Metropolitan State University, USA); Sena Hounsino (Metro State University, USA)

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

SESSION 15: SECURITY, TRUST AND PRIVACY**SESSION CHAIR: RASIB KHAN (NORTHERN KENTUCKY UNIVERSITY, USA)****SESSION TIME: 2.00 PM–3:15 PM (DAY 2: 21st May 2026) [ROOM NO. – 309]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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)
3:15 PM – 3:30 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)

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

SESSION 16: 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. – 308]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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	1571273952	Vertical Integration of Agentic AI into IoT	Ralph Deters (University of Saskatchewan, Canada & Saskatoon, Canada); Sandra Kumi (University of Saskatchewan, Canada)

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

SESSION 17: 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. – 309]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:00 PM – 4:15 PM	1571276246	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 Jonatan 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 18: 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. – 3AB]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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: 22nd May 2026

TIME	PARALLEL SESSION
9:30 AM - 11:00 AM	SESSION 19: SECURITY FOR IOT [ROOM NO- 307]
9:30 AM - 11:15 AM	SESSION 20: AI AND IOT SYSTEM ARCHITECTURE [ROOM NO- 308]
9:30 AM - 11:15 AM	SESSION 21: 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 22: AI AND ML [ROOM NO- 307]
2:00 PM – 3:30 PM	SESSION 23: ARTIFICIAL INTELLIGENCE [ROOM NO- 308]
2:00 PM – 3:30 PM	SESSION 24: 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 19: SECURITY FOR IOT**SESSION CHAIR:****SESSION TIME: 9:30 AM-11:00 AM (DAY 3: 22nd May 2026) [ROOM NO. – 307]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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	1571269145	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	1571273811	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 20: AI AND IOT SYSTEM ARCHITECTURE**SESSION CHAIR:****SESSION TIME: 9:30 AM-11:15 AM (DAY 3: 22nd May 2026) [ROOM NO. – 308]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9:30 AM – 9:45 AM	1571273681	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	1571265583	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	1571273696	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	1571273448	Graph2Proof: Topology-Aware Reward Shaping for Natural Language Theorem Proving	Wenhao Lu (Millburn High School, USA)
10:30 AM – 10:45 AM	1571276283	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 21: IOT ENABLING TECHNOLOGIES

SESSION CHAIR:

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

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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, College 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	1571273827	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: 22nd May 2026]

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

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

SESSION 22: AI AND ML			
SESSION CHAIR: PRIYANK KALGAONKAR (LAFAYETTE COLLEGE, USA)			
SESSION TIME: 2.00 PM -3.15 PM (DAY 3: 22nd May 2026) [ROOM NO. – 307]			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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 Kavim 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)
3:00 PM – 3:15 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)

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

SESSION 23: ARTIFICIAL INTELLIGENCE**SESSION CHAIR: LIN LI (SEATTLE UNIVERSITY, USA)****SESSION TIME: 2.00 PM – 3.15 PM (DAY 3: 22nd May 2026) [ROOM NO. – 308]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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 24: ARTIFICIAL INTELLIGENCE**SESSION CHAIR:****SESSION TIME: 2.00 PM – 3.00 PM (DAY 3: 22nd May 2026) [ROOM NO. – 309]**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
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 Kumara wadu (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 Kumara wadu 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 Tata varthi (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))**

