



IEEE CCWC 2025

2025 IEEE 15th Annual Computing and Communication Workshop and Conference (CCWC)

UNIVERSITY OF NEVADA, LAS VEGAS, USA

6 - 8 January 2025

All the timings are given in Pacific Standard Time (UTC-8)

TECHNICAL SCHEDULE

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All the timings are given in Pacific Standard Time (UTC-8)

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	KEYNOTE 5: HOW AI AND SOFTWARE-DEFINED VEHICLES WILL TRANSFORM THE AUTOMOTIVE CUSTOMER EXPERIENCE By Dr. EVANGELOS SIMOUDIS [Room -AUDITORIUM]	11:30 AM–12:15 PM	31
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DAY 1: 6th Jan 2025

TIME	PARALLEL SESSION
9:00 AM - 9:30 AM	INAUGURATION [ROOM - AUDITORIUM]
9:30 AM – 11:00 AM	SESSION 1: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no– 1240]
9:30 AM – 10.45 AM	SESSION 2: ALGORITHMS AND THEORY [Room no– 1242]
9:30 AM – 11:00 AM	SESSION 3: ALGORITHMS AND THEORY [Room no– 1243]
11:00 AM- 11:30AM	-----BREAK-----
11:30 AM-1:00 PM	KEYNOTE 1: SELF-POWERED SAILBOAT DRONES: A DISTRIBUTED SWARM ARCHITECTURE FOR REAL-TIME OCEAN MONITORING BY Dr. M. REZA ALAM [Room -Auditorium]
1:00 PM – 2:00 PM	KEYNOTE 2: AI AND RESPONSIBLE INNOVATION IN GOVERNMENT BY Dr. HEATHER RENZE [Room -Auditorium]
2:00 PM – 3:30 PM	SESSION 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no– 1240]
2:00 PM – 3:30 PM	SESSION 5: ALGORITHMS AND THEORY [Room no– 1242]
2:00 PM – 3:30 PM	SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no– 1243]
3.30 PM- 4.00 PM	-----BREAK-----
4:00 PM – 5:30 PM	SESSION 7: SECURITY, TRUST AND PRIVACY [Room no– 1240]
4:00 PM – 5:45 PM	SESSION 8: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no– 1242]
4:00 PM – 5:30 PM	SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no– 1243]

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PARALLEL SESSIONS

SESSION 1: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**SESSION CHAIR: RASHIDA HASAN (CALIFORNIA STATE UNIVERSITY,
NORTHRIDGE, USA)**

SESSION TIME: 9:30 AM – 11:00 AM (DAY 1: 6th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571097062	LLM-Based Chatbot to Reduce Mental Illness Stigma in Healthcare Providers	Christian M Reategui-Rivera (University of Utah, USA); Aref Smiley (University of Utah, USA); Joseph Finkelstein (University of Utah, School of Medicine, USA)
9.45 AM -10.00 AM	1571097712	Sustainability in Large Language Models: Applications, Economics, and Challenges	Aditi Singh and Nirmal Prakashbhai Patel (Cleveland State University, USA); Abul Ehtesham (The Davey Tree Expert Company, USA); Saket Kumar (The Mathworks, USA); Tala Talaei Khoei (Northeastern University, USA)
10.00 AM – 10.15 AM	1571097451	A Survey of Large Language Model-Based Generative AI for Text-to-SQL: Benchmarks, Applications, Use Cases, and Challenges	Aditi Singh and Akash Shetty (Cleveland State University, USA); Abul Ehtesham (The Davey Tree Expert Company, USA); Saket Kumar (The Mathworks, USA); Tala Talaei Khoei (Northeastern University, USA)
10.15 AM -10.30 AM	1571096366	Toward Ethical AI: a Qualitative Analysis of Stakeholder Perspectives	Ajay K Shrestha and Sandhya Joshi (Vancouver Island University, Canada)
10.30 AM -10.45 AM	1571091596	Investigation of the Privacy Concerns in AI Systems for Young Digital Citizens: a Comparative Stakeholder Analysis	Ajay K Shrestha, Molly Campbell, Ankur Barthwal, Austin Shouli and Sandhya Joshi (Vancouver Island University, Canada)

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SESSION 2: ALGORITHMS AND THEORY**SESSION CHAIR: MATIN PIROUZ (CALIFORNIA STATE UNIVERSITY,
FRESNO, USA)****SESSION TIME: 9:30 AM – 10.45 AM (DAY 1: 6th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571096775	Blockchain-Based Supply Chain Management for Ensuring the Quality and Traceability of Fresh Produce: an Illustrative Analysis	Mohammad A Rahman (Tuskegee University, USA); Ummey Honey and Shashank Rangari (Auburn University, USA); Fan Wu (Tuskegee University, USA)
9.45 AM -10.00 AM	1571097638	Classification of Kidney Diseases Using Deep Neural Networks	Lina Chato, Thoyajaksha Kristipati, Bhuvu Moturu, Sunayana Parimi and Neerajdattu Dudam (University of South Dakota, USA)
10.00 AM – 10.15 AM	1571096424	Energy Prediction for Automobile Air Conditioning Systems	Miles Kaddoura (California State University Northridge, USA)
10.15 AM -10.30 AM	1571095698	Assessing the Resilience of BFT-Raft Consensus Against Insider DoS Attacks in Blockchain	Amani Altarawneh (Tennessee Tech University, USA); Jemima Owusu-Tweneboah (Tennessee Technological University, USA)
10.30 AM -10.45 AM	1571095961	Dynamic Resource Allocation Considering Workload Changes in a Disaggregated Data Center	Akishige Ikoma, Yuichi Ohsita and Masayuki Murata (Osaka University, Japan)

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SESSION 3: ALGORITHMS AND THEORY**SESSION CHAIR: PAUL OH (UNIVERSITY OF NEVADA, LAS VEGAS, USA)****SESSION TIME: 9:30 AM – 11:00 AM (DAY 1: 6th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571096045	Hybrid WOA-GA Algorithm for Coverage Optimization and Energy Efficiency in Wireless Sensor Networks	Momar Ousmane BA (Université IBA DER THIAM, Senegal); Cheikhou Thiam and Mamadou MBaye (Université de Thiès, Senegal)
9.45 AM -10.00 AM	1571095725	Long Range Surveillance MIMO Radar at 24 GHz	Shahrokh Hamidi (University of Waterloo, Canada)
10.00 AM – 10.15 AM	1571096425	EmoXpt: Analyzing Emotional Variances in Human Comments and LLM-Generated Responses	Shireesh Reddy Pyreddy and Tarannum Shaila Zaman (SUNY Polytechnic Institute, USA)
10.15 AM -10.30 AM	1571090677	Construction of Bounded-Degree Minimum-Radius Spanning Trees for WSNs	Min Kyung An and Hyuk Cho (Sam Houston State University, USA)
10.30 AM -10.45 AM	1571096370	Utilizing Large Language Models With Causal Reasoning and Commonsense Knowledge for Empathic Dialogue Generation	Zhu YunHao (Northwest Normal University, China)
10.45 AM – 11.00 AM	1571092579	High Resolution Millimeter Wave Imaging Based on FMCW Radar Systems at W-Band	Shahrokh Hamidi (University of Waterloo, Canada)

BREAK**11:00 AM – 11:30 AM****All the timings are given in Pacific Standard Time (UTC-8)**

KEYNOTE SESSION [DAY 1 : 6TH JAN 2025]

TIME	NAME OF THE EVENT
11:30 AM – 12:15 PM	KEYNOTE ADDRESS BY M. REZA ALAM (VICE CHAIR, EQUITY & INCLUSION, PROFESSOR OF MECHANICAL ENGINEERING, UC BERKELEY) TITLE OF TALK: SELF-POWERED SAILBOAT DRONES: A DISTRIBUTED SWARM ARCHITECTURE FOR REAL-TIME OCEAN MONITORING
12:15 PM – 1:00 PM	KEYNOTE ADDRESS BY HEATHER RENZE (CTO, THE DIFFERENCE CONSULTING) TITLE OF TALK: AI AND RESPONSIBLE INNOVATION IN GOVERNMENT
1:00 PM-2:00 PM	LUNCH BREAK

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PARALLEL SESSIONS

SESSION 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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

SESSION TIME: 2:00 PM – 3:15 PM (DAY 1: 6th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571095165	Mapping Very-High Resolution Evapotranspiration Data Using a Dual GAN Model	Ting Zhang (McDaniel College, USA); Yun Yang (Cornell University, USA)
2.15 PM – 2.30 PM	1571086061	Comparative Analysis of Time Series Deep Learning Models for Detecting Ransomware Attacks	Peizhi Yan, Tala Talaei Khoei, Reemaa Sajad Hyder and Reena Sajad Hyder (Northeastern University, USA)
2.30 PM – 2.45 PM	1571085688	A Comparative Analysis of Ensemble Supervised Models in Ransomware Detection Techniques	Reemaa Sajad Hyder, Tala Talaei Khoei, Reena Sajad Hyder and Peizhi Yan (Northeastern University, USA)
2.45 PM – 3.00 PM	1571096657	Deep Reinforcement Learning-Based Sector Carrier Assignment in CloudRAN	Mbarka Soualhia and Carla Mouradian (Ericsson Research, Canada); Abhishek Sarkar (Ericsson Research, India); Robert Szabo (Ericsson Hungary Ltd., Hungary)
3.00 PM – 3.15 PM	1571095697	End-to-End Requirements Mapping for Cloud-Native Applications Using ML Models	Mbarka Soualhia (Ericsson Research, Canada); Fetahi Wuhib (Ericsson AB, Sweden)

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SESSION 5: ALGORITHMS AND THEORY**SESSION CHAIR: LINA CHATO (UNIVERSITY OF SOUTH DAKOTA, USA)****SESSION TIME: 2:00 PM – 3:30 PM (DAY 1: 6th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571096474	LSTM-Based Rotor Power Predictive Control for UAV With Fluid Payload Sloshing	Shuo Wu and Karthik Velagapudi (California State University, Fresno, USA); Nan Wang (California State University at Fresno, USA)
2.15 PM – 2.30 PM	1571096472	Low-Power Error Correction Codes With Clock Gating: a Comparative Analysis	Karthik Velagapudi and Shuo Wu (California State University, Fresno, USA); Nan Wang (California State University at Fresno, USA)
2.30 PM – 2.45 PM	1571087639	Fast Galaxy Image Simulation Using Low-Rank Adapters	Hardik Bishnoi and Tala Talaei Khoei (Northeastern University, USA)
2.45 PM – 3.00 PM	1571066973	An Speech-Based Emotional Artificial Intelligence Detection Framework	Tala Talaei Khoei (Northeastern University, USA); Aditi Singh (Cleveland State University, USA); Peizhi Yan (Northeastern University, USA)
3.00 PM – 3.15 PM	1571095423	Breaking the Counter (CTR) Mode	Mandeep Singh (USA); Albert H Carlson (Quantum Security Alliance, USA); Robert E Hiromoto (University of Idaho, USA)
3.15 PM – 3.30 PM	1571085734	Movie Gen: SWOT Analysis of Meta's Generative AI Foundation Model for Transforming Media Generation, Advertising, and Entertainment Industries	Abul Ehtesham (The Davey Tree Expert Company, USA); Saket Kumar (The Mathworks, USA); Aditi Singh (Cleveland State University, USA); Tala Talaei Khoei (Northeastern University, USA)

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SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: PAUL OH (UNIVERSITY OF NEVADA, LAS VEGAS, USA)****SESSION TIME: 2:00 PM – 3:15 PM (DAY 1: 6th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571096998	Advancing Time Series Forecasting: Quantum vs. Classical LSTM Approaches	Aditi Saha, Taieba Tasnim, Mohammad A Rahman and Fan Wu (Tuskegee University, USA)
2.15 PM – 2.30 PM	1571096804	Quantum Vs Classical: Performance Benchmarking of CNN and QCNN in Binary Image Classification	Taieba Tasnim, Aditi Saha, Mohammad A Rahman and Fan Wu (Tuskegee University, USA)
2.30 PM – 2.45 PM	1571096784	Multi-Stage Retriever Model for Document Classification Using Fine Tuned Embedding Model	Navaneeth Amarnath and Saiteja Tallam (Infrd, India); Pratyusha Rasamsetty (Infrd, USA); Deepak Kumar (Infrd, India)
2.45 PM – 3.00 PM	1571093712	RA-BNN: Constructing a Robust & Accurate Binary Neural Network Using a Novel Network Growth Mechanism to Defend Against BFA	Adnan Siraj Rakin (Binghamton University, USA); Li Yang (North Carolina Charlotte, USA); Jingtao Li (SONY AI, USA); Yao (University of Central Florida, USA); Chaitali Chakrabarti (Arizona State University, USA); Yu Cao (University of Minnesota Twin Cities, USA); Jae-sun Seo (Cornell Tech, USA); Deliang Fan (Arizona State University, USA)

3:30 PM- 4:00 PM**COFFEE BREAK****All the timings are given in Pacific Standard Time (UTC-8)**

PARALLEL SESSIONS

SESSION 7: SECURITY, TRUST AND PRIVACY			
SESSION CHAIR: AJAY K SHRESTHA (VANCOUVER ISLAND UNIVERSITY, CANADA)			
SESSION TIME: 4:00 PM – 5:15 PM (DAY 1: 6th Jan 2025)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571096865	SISE: Supersingular Isogeny-Based Symmetric Encryption	Manki Min and Abdullah Dakhlallah Alshamdayn (Louisiana Tech University, USA)
4.15 PM – 4.30 PM	1571093714	A Review of Resilience Testing in Microservices Architectures: Implementing Chaos Engineering for Fault Tolerance and System Reliability	Akalanka Bandara Mailewa (St. Cloud State University, USA); Arunkumar Akutota (Mortgage Neks LLC Db a LoanNEX, USA); Thivanka Dissanayake Mohottalalage (St. Cloud State University, USA)
4.30 PM – 4.45 PM	1571093029	Comparative Analysis of Differential Privacy Implementations on Synthetic Data	Huwida E Said, Sr (Zayed University, United Arab Emirates); Qusay Mahmoud and Mandeep Goyal (Ontario Tech University, Canada); Faiza Hashim (United Arab Emirates University, UAE, United Arab Emirates)
4.45 PM – 5.00 PM	1571087923	Securing the Containerized Environment Along the CI/CD Pipeline	Mark A. Thompson and Alex Kyer (Virginia Tech, USA)
5.00 PM – 5.15 PM	1571096093	A Novel Approach to Quantum-Resistant Selective Encryption for Agricultural Sensors With Limited Resources	Aditya Jagatha, Akshay Kappala, Mahesh Kamepalli, Varghese Vaidyan and Eric Yocam (Dakota State University, USA); Yong Wang (DSU, USA); Gurcan Comert (North Carolina a & T University, USA)

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SESSION 8: BIG DATA, DATA MANAGEMENT AND ANALYTICS
SESSION CHAIR: ADITI SINGH (CLEVELAND STATE UNIVERSITY, USA)

SESSION TIME: 4:00 PM – 5:15 PM (DAY 1: 6th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571095929	A Novel Framework for Early Prediction of Student Grades Using Click Stream Analysis	Pujitha Reddy Surapareddy, Hsing-Hung Wan and Matin Pirouz (California State University, Fresno, USA)
4.15 PM – 4.30 PM	1571089863	Multifractal Predictive Modeling of Post-Earnings Announcement Drift	Nnamdi Nwanze, Asser Nasser Moustafa and Rares-Mihail Neagu (North Central College, USA)
4.30 PM – 4.45 PM	1571097082	Road Traffic Congestion Exploration and Visualization Using Open Spatial-Temporal Data and HCI Principles	Yazmin E Martinez (University of Nevada Las Vegas, USA); Wolfgang Bein (University of Nevada, Las Vegas, USA)
4.45 PM – 5.00 PM	1571097888	IoT-Driven Energy Management and Optimization: a Comprehensive Review and Case Study Analysis	Akalanka Bandara Mailewa (St. Cloud State University, USA); Arunkumar Akutota (Mortgage Neks LLC Dba LoanNEX, USA); Thivanka Dissanayake Mohottalalage and Jacob Mitchell (St. Cloud State University, USA)
5.00 PM – 5.15 PM	1571096450	Contextual Language Modeling for Enhanced Machine Translation: Leveraging Long-Context Representations	Preksha Vinod Kothari (The Edge Fitness Clubs, LLC, USA); Jainam Tushar Gandhi (Wuxi Advanced Therapies, USA)

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SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: RASHIDA HASAN (CALIFORNIA STATE UNIVERSITY,
NORTHRIDGE, USA)****SESSION TIME: 4:00 PM – 5:30 PM (DAY 1: 6th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571096813	Flow Table Modification Using Behavioral-Based Fingerprinting Technique to Facilitate Zero Trust Identity Management and Access Control	Vinton Morris and Kevin Kornegay (Morgan State University, USA)
4.15 PM – 4.30 PM	1571093486	Predicting Mortality and Functional Status Scores of Traumatic Brain Injury Patients Using Supervised Machine Learning	Venkata Siva Kumar K Margapuri (Villanova University, USA)
4.30 PM – 4.45 PM	1571097497	An Empirical Study: Feasibility of Website Fingerprinting Attacks in Real-Time Environments on V3 Onion Services	Donghoon Kim and Andrew Booth (Arkansas State University, USA); Doosung Hwang (Dankook University, Korea (South))
4.45 PM – 5.00 PM	1571096787	First Responder Communication Systems: a Technical Analysis of Interoperability and Situational Awareness Optimization	Swarnamouli Majumdar (Zenext AI, Canada)
5.00 PM – 5.15 PM	1571090801	An LLM-Based Framework for Synthetic Data Generation	Mandeep Goyal and Qusay Mahmoud (Ontario Tech University, Canada)
5:15 PM – 5.30 PM	1571096477	melSeg: an Adaptation of Segment Anything Model for Skin Lesion Segmentation	Shudipto Sekhar Roy (University of North Dakota, USA); Ramtin Kardan (University of North Dakota, ND USA, USA); Jeremiah Neubert (University of North Dakota, USA)

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Day 2: 7th JAN 2025

TIME	PARALLEL SESSION
9:30 AM-11:00 AM	SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no- 1240]
9:30 AM-11:00 AM	SESSION 11: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no- 1242]
9:30 AM-11:00 AM	SESSION 12: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no- 1243]
9:30 AM-11:00 AM	SESSION 13: ROBOTICS AND MACHINE VISION, HIGH PERFORMANCE NETWORKS AND PROTOCOLS, CRYPTOGRAPHY [Room -AUDITORIUM]
11.00 AM – 11.30 AM	-----BREAK-----
11:30 PM – 1.00 PM	KEYNOTE 3: DEEP SEA ROBOTICS EXPLORATION: OCEANONEK By Dr. OUSSAMA KHATIB [Room -AUDITORIUM] KEYNOTE 4: FROM 3G/4G TO 5G/XG: AN UNTOLD STORY ON CELLULAR NETWORK EVOLUTION By Dr. CHUNYI PENG [Room -AUDITORIUM]
1.00 PM–2:00 PM	-----LUNCH BREAK-----
2.00 PM – 4:00 PM	WORKSHOP 1: APPLICATIONS ON GENERATIVE AI [Room No-1240]
2.00 PM–3:30 PM	SESSION 14: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room- 1242]
2.00 PM–3:30 PM	SESSION 15: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no-1243]
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3:30 PM- 4:00 PM	-----BREAK-----
4.00 PM- 5:30 PM	SESSION 17: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no- 1240]
4:00 PM- 5:30 PM	SESSION 18: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no- 1242]
4:00 PM- 5:30 PM	SESSION 19: BIG DATA, DATA MANAGEMENT AND ANALYTICS [Room no- 1243]

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PARALLEL SESSIONS

SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR:****SESSION TIME: 9:30 AM – 11:00 AM (DAY 2: 7th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571077993	Charging Optimization in Multi-App Wireless Sensor Networks Through Reinforcement Learning	Neal Hamacher, Benjamin Lawrence and Mohammed Elmorsy (MacEwan University, Canada)
9.45 AM -10.00 AM	1571097064	Enhancing Brain Tumor Identification Through Convolutional Neural Networks and Transformer Models	Neerajdattu Dudam, Lina Chato and Thoyajaksha Kristipati (University of South Dakota, USA)
10.00 AM – 10.15 AM	1571097897	A Predictive Trading Framework Using Functional Linear Discriminant Analysis	Declan P Mallamo (University of Maryland & Navair, USA); Helene P Hoang (George Mason University, USA)
10.15 AM -10.30 AM	1571096440	Feasibility of Radar-Based Heart Rate Variability Measurement: a Comparative Study With Electrocardiography	Aref Smiley (University of Uath, USA); Joseph Finkelstein (University of Utah, School of Medicine, USA)
10.30 AM -10.45 AM	1571096746	Spatiotemporal Analysis of Crime Patterns in Houston, Texas	Andrew J. Park (Trinity Western University, Canada); Mohamed Aziz Srairi (Tunis Business School, Tunisia); Dominic Nootebos (Trinity Western University, Canada)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 11: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: MATIN PIROUZ (CALIFORNIA STATE UNIVERSITY,
FRESNO, USA)****SESSION TIME: 9:30 AM – 11:00 AM (DAY 2: 7th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571095040	Multi-Modal Learning for Robust and Reliable Performance Testing	Saurabh Kapoor (Amazon & Amazon.com, USA); Shubhamvada Bhardwaj (SAP Inc, USA)
9.45 AM -10.00 AM	1571088153	Unmasking the Imposter: Detecting Fake Media With Generative Adversarial Networks	Saurabh Kapoor (Amazon & Amazon.com, USA)
10.00 AM – 10.15 AM	1571082925	Pattern Recognition for Effective Automation Testing	Saurabh Kapoor (Amazon & Amazon.com, USA)
10.15 AM -10.30 AM	1571087872	A Lightweight Machine Learning Approach for Anomalous Unsolicited Network Traffic Detection by Observing Network Telescopes	Shereen Ismail (University of Michigan, USA); Salah Dandan (University of North Dakota, United Arab Emirates); Mark A King (Merit Network, USA & University of Michigan, USA)
10.30 AM -10.45 AM	1571096779	Can RAG Calibrate LLMs for Information Extraction Tasks?	JiangLong He (Infrd, USA); Deepak Kumar (Infrd, India); Pratyusha Rasamsetty (Infrd, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 12: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: SHAHAB TAYEB (CALIFORNIA STATE UNIVERSITY,
FRESNO)****SESSION TIME: 9:30 AM – 11:00 AM (DAY 2: 7th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571096876	GA-SFS: a Two-Stage Hybrid Algorithm for Feature Selection in Biomedical Data	Brian Bales, Monitha Davuluri and Rashida Hasan (California State University, Northridge, USA)
9.45 AM -10.00 AM	1571093133	A Hybrid LSTM-GARCH Network for Stock Market Volatility Prediction	Nithyasai Siddiraju and Rashida Hasan (California State University, Northridge, USA)
10.00 AM – 10.15 AM	1571097037	Analyzing the Impact of AI Tools on Student Study Habits and Academic Performance	Ben Ward, Deepshikha Bhati, FNU Neha and Angela Guercio (Kent State University, USA)
10.15 AM -10.30 AM	1571096834	Neural Network Interpretability With Layer-Wise Relevance Propagation: Novel Techniques for Neuron Selection and Visualization	Deepshikha Bhati, FNU Neha, Md Amiruzzaman and Angela Guercio (Kent State University, USA); Deepak Kumar Shukla (Rutgers University, USA); Ben Ward (Kent State University, USA)
10.30 AM -10.45 AM	1571079342	Breast Cancer Risk Prediction: A Machine Learning Study Using Network Analysis	Saiqing Guan (University of South Alabama, USA)
10.45 AM – 11.00 AM	1571097433	BrandCrafter AI, an AI-Based Brand Identity Generation Platform	Mira Kim and Sélim Gawad (California State University - Fullerton, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 13: ROBOTICS AND MACHINE VISION, HIGH PERFORMANCE NETWORKS AND PROTOCOLS, CRYPTOGRAPHY

SESSION CHAIR: QI ZHANG (ILLINOIS STATE UNIVERSITY, USA)

SESSION TIME: 9:30 AM – 10:15 AM (DAY 2: 7th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571087873	Promoting Physical Exercise Adherence and Safety in Virtual Reality Using IoT Architecture	Te-Yi Tsai (Data Scientist, University of Utah, USA); Aref Smiley (University of Utah, USA); Joseph Finkelstein (University of Utah, School of Medicine, USA)
9.45 AM -10.00 AM	1571096441	Towards Quantitative Measures of Network Design Complexity	Xin Sun (Ball State University, USA)
10.00 AM – 10.15 AM	1571096471	The Value of Information	Albert H Carlson (Quantum Security Alliance, USA); Benjamin Williams (University of Idaho, USA); Sai Ranganath Mikkilineni (Delaware State University, USA); Mandeep Singh (US Army, USA)
10.15 AM -10.30 AM	1571096531	Adapting NIST Aerial Drone Tests for Thermal Identification, Inspection, and Suppression of Wildfires	Ethan Nowery and Paul Oh (University of Nevada, Las Vegas, USA)

11:00 AM- 11:30 AM	COFFEE BREAK
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All the timings are given in Pacific Standard Time (UTC-8)

KEYNOTE SESSION [DAY 2: 7TH JAN 2025]

TIME	NAME OF THE EVENT
11:30 AM–12:15 PM	KEYNOTE ADDRESS BY OUSSAMA KHATIB (PROFESSOR, STANFORD UNIVERSITY) TITLE OF TALK: DEEP-SEA ROBOTICS EXPLORATION: OCEANONEK
12:15 PM–1:00 PM	KEYNOTE ADDRESS BY CHUNYI PENG (PROFESSOR, PURDUE UNIVERSITY) TITLE OF TALK: FROM 3G/4G TO 5G/XG: AN UNTOLD STORY ON CELLULAR NETWORK EVOLUTION

1:00 PM-2:00 PM	LUNCH BREAK
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WORKSHOP ON APPLICATIONS ON GENERATIVE AI BY SUDIPTA SAHANA (UNIVERSITY OF ENGINEERING AND MANAGEMENT, KOLKATA)	2.00 PM – 4.00 PM
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All the timings are given in Pacific Standard Time (UTC-8)

PARALLEL SESSIONS

SESSION 14: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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

SESSION TIME: 2:00 PM – 3:30 PM (DAY 2: 7th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571097849	Domain Specific Finetuning of LLMs Using PEFT Techniques	Deva Kumar Gajulamandyam, Sainath Veerla and Yasaman Emami (San Jose State University, USA); Kichang Lee (Massachusetts General Hospital, Harvard Medical School, USA); Yuanting Li, Jinty Swetha Mamillapalli and Simon Shim (San Jose State University, USA)
2.15 PM – 2.30 PM	1571095906	HEALTH-ML: a Machine Learning Framework for Equity-Driven Public Health Outcome Prediction	Jake Ekoniak (University of California, Los Angeles, USA); Marjan Asadina (California State University, Northridge, USA)
2.30 PM – 2.45 PM	1571096137	Malicious Use of Artificial Intelligence	Chuck Easttom (Vanderbilt University, USA & Georgetown University, USA)
2.45 PM – 3.00 PM	1571096827	Enhancing Medical Imaging Accessibility: an AI-Powered Automated Tactile and 3D-Printable X-Ray System	Priti Yadav (Noddle Care Inc., Canada & Independent Researcher, Canada); Anujkumarsinh Donvir (ADP, USA)
3.00 PM – 3.15 PM	1571095925	A Novel Framework for Malware Analysis: Integrating Large Language Models With Heuristic Techniques	Chuck Easttom (Vanderbilt University, USA & Georgetown University, USA); Brian D Lee (Vanderbilt University, USA)
3.15 PM – 3.30 PM	1571095761	Deeper Anomaly Detection in Industrial Automation	Youngmi Baek (Changshin University, Korea (South))

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 15: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR:****SESSION TIME: 2:00 PM – 3:30 PM (DAY 2: 7th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571097662	Using a Symbolic Knowledge Graph to Address LLM Limitations in Analog Circuit Topology Generation	Alex Doboli (Stony Brook University, USA)
2.15 PM – 2.30 PM	1571087388	Towards Semantic Classification: An Experimental Study on Automated Understanding of the Meaning of Verbal Utterances	Gnaneswar Villuri, Alex Doboli and Himavanth Reddy Pallapu (Stony Brook University, USA)
2.30 PM – 2.45 PM	1571083620	Deep Neural Network Ensembles for the Detection of Alzheimer's Disease Using Imbalanced Clock Drawing Test Images	Sai Santosh Reddy Danda (University of Michigan-Dearborn, USA); Alper K Uysal (University of Michigan-Dearborn, USA & Alanya Alaaddin Keykubat University, Turkey); Tian Qin (University of Michigan-Dearborn, USA); Anu M. Kumar (University of Michigan, USA); Varshitha Sannareddy (University of Michigan-Dearborn, USA); Mengyao Hu (The University of Texas Health Science Center at Houston, USA); Richard Gonzalez (University of Michigan, USA); Yi Lu Murphey (University of Michigan-Dearborn, USA)
2.45 PM – 3.00 PM	1571096785	Towards the Detection of Malware in the Internet of Things at Run-Time	Domhnall Carlin (Queen's University Belfast, United Kingdom (Great Britain))
3.00 PM – 3.15 PM	1571097176	QRAG: Using Learnable Graph Queries for Retrieval Augmented Generation	Alexandria Barghi (University of Maryland)
3.15 PM – 3.30 PM	1571096759	Ethical Challenges and Frameworks in AI-Driven Software Development and Testing	Anujkumarsinh Donvir (ADP, USA); Gaurav Sharma (LTIMindtree, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 16: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: AREF SMILEY (UNIVERSITY OF UATH, USA)****SESSION TIME: 2:00 PM – 3:30 PM (DAY 2: 7th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571095911	Leveraging Large Language Models and Machine Learning for Smart Contract Vulnerability Detection	S M Mostaq Hossain (Tennessee Technological University, USA); Amani Altarawneh (Tennessee Tech University, USA); Jesse Roberts (Tennessee Technological University & Tennessee Technological University, USA)
2.15 PM – 2.30 PM	1571065844	Data Augmentation Based on Conditional Generative Adversarial Network (CGAN) for Android Malware Binary Classification	Fawaz Mohammad Hayel Othman (Universiti Teknologi Malaysia, Malaysia); Bander Ali Saleh Al-Rimy (University of Portsmouth, United Kingdom (Great Britain)); Sultan Ahmed Almalki (Najran University, Saudi Arabia); Tami Alghamdi (Al-Baha University, Saudi Arabia)
2.30 PM – 2.45 PM	1571097633	Debiasing and Preserving Privacy in Sleep Datasets Using Generative Adversarial Neural Networks	Mark Allison (The University of Michigan-Flint, USA)
2.45 PM – 3.00 PM	1571096839	Enhancing Fetal Health Diagnosis: a Comprehensive Evaluation of Machine Learning Techniques on Cardiotocogram Data	Minh H. Tran, Lauren E. Rogalski and Afsana Ahamed (Arkansas Tech University, USA)
3.00 PM – 3.15 PM	1571080160	The Impact of Machine Learning Interpretation on Breast Cancer	Afsana Ahamed, A K M Rubaiyat Reza Habib, Zahra Zamanipour and Syed Imran Ali Meerza (Arkansas Tech University, USA)
3.15 PM – 3.30 PM	1571097708	Design and Development of HealKitchen - a Persuasive Application to Influence Healthy Dietary Habits	Iyanuoluwa Sowande (University of British Columbia, Canada); Ifeoma Adaji (The University of British Columbia, Canada)

3:30 PM- 4:00 PM**COFFEE BREAK****All the timings are given in Pacific Standard Time (UTC-8)**

PARALLEL SESSIONS

SESSION 17: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: LINA CHATO (UNIVERSITY OF SOUTH DAKOTA, USA)

SESSION TIME: 4:00 PM – 5:30 PM (DAY 2: 7th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571096464	GPT-4 Meets TF-IDF: a Hybrid Approach for Detecting Spam Emails Using Machine Learning	Sherif Abdelhamid, Benjamin Davis and Dang Khoa Le (Virginia Military Institute, USA)
4.15 PM – 4.30 PM	1571097677	Energy-Aware Adaptive Framework for CAV	Dewant Katare (TU Delft, The Netherlands); Marijn Janssen (Delft University of Technology, The Netherlands); Aaron Yi Ding (TU Delft & University of Helsinki, The Netherlands)
4.30 PM – 4.45 PM	1571096828	Exploring AI Text Generation, Retrieval-Augmented Generation, and Detection Technologies: a Comprehensive Overview	FNU Neha and Deepshikha Bhati (Kent State University, USA); Deepak Kumar Shukla (Rutgers University, USA); Angela Guercio and Ben Ward (Kent State University, USA)
4.45 PM – 5.00 PM	1571094127	SMART-WRITE: Adaptive Learning-Based Write Energy Optimization for Phase Change Memory	Mahek T Desai (California State University Northridge, USA); Rowena Quinn (Illinois Central College, USA); Marjan Asadinia (California State University, Northridge, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 18: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: NNAMDI NWANZE (NORTH CENTRAL COLLEGE, USA)****SESSION TIME: 4:00 PM – 5:45 PM (DAY 2: 7th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571096433	Developing Image-Based and Deep Learning Enhanced Diagnostics for Determining Chemical Compositions	Ruth Agada, Sriram Srinivasan, Rand Obeidat, Paola Montepeque and Joshua Graves (Bowie State University, USA); Oliver Steinbock (Florida State University, USA); Beni Dangi (Florida A&M University, USA); Jie Yan (Bowie State University, USA)
4.15 PM – 4.30 PM	1571096168	Towards User-Centric Machine Learning: Educational Web-Based GUI Tool Development	Rachel E Lewis, Yali Wang, Solomon Himelbloom, Jhansirani Bonda, Travis Winterton and Arghya Kusum Das (University of Alaska Fairbanks, USA)
4.30 PM – 4.45 PM	1571096153	Monitoring Leafy Plant Root Morphology With Pattern Recognition Imaging Techniques	Md Mahmudul Kabir Kabir Peyal, Ashraf Ul Islam Shihab, Sunjiul (Ocean) Islam, Nafiu Nawar and Hao Chen (Boise State University, USA)
4.45 PM – 5.00 PM	1571096836	Empowering Healthcare Data Systems With an Innovative Chatbot Application Utilizing Python and Advanced Generative AI Models	Sriram Rampelli and Wisam Bukaita (Lawrence Technological University, USA)
5.00 PM – 5.15 PM	1571096776	The Concept of Cognitive CyTutor Utilizing Federated Learning for Cybersecurity Education	Jesudhas Yogarajah and Gahangir Hossain (University of North Texas, USA)
5:15 PM – 5.30 PM	1571095188	Evaluating the Universality of "Do Anything Now" Jailbreak Prompts on Large Language Models	Seyedsina Nabavirazavi, Samira Zad and S. s. Iyengar (Florida International University, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 19: BIG DATA, DATA MANAGEMENT AND ANALYTICS
SESSION CHAIR: SHAHAB TAYEB (CALIFORNIA STATE UNIVERSITY, FRESNO)

SESSION TIME: 4:00 PM – 5:15 PM (DAY 2: 7th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571097010	Quantifying Public Response to COVID-19 Events: Introducing the Community Sentiment and Engagement Index	Nirmalya Thakur (South Dakota School of Mines and Technology, USA); Kesha A Patel, Audrey Poon, Shuqi Cui, Nazif Azizi, Rishika Shah and Riyan Shah (Emory University, USA)
4.15 PM – 4.30 PM	1571096994	COVID-19 on YouTube: a Data-Driven Analysis of Sentiment, Toxicity, and Content Recommendations	Vanessa Su (Emory University, USA); Nirmalya Thakur (South Dakota School of Mines and Technology, USA)
4.30 PM – 4.45 PM	1571095428	Is Internet Traffic Really Random?	Mandeep Singh (USA); Albert H Carlson (Quantum Security Alliance, USA); Robert E Hiromoto and Benjamin Williams (University of Idaho, USA)
4.45 PM – 5.00 PM	1571097049	A Big Data Optimization Comparison Using Apache Spark and Apache Airflow	Taylor Hartman and Samir Poudel (Middle Tennessee State University, USA); Jiblal Upadhyay (Middle Tennessee State University & USA, USA); Md Nahid Hasan, Khem Poudel and Kritagya R Upadhyay (Middle Tennessee State University, USA)
5.00 PM – 5.15 PM	1571095932	Network-Based Brain Modeling	Matin Pirouz (California State University, Fresno, USA)

All the timings are given in Pacific Standard Time (UTC-8)

Day 3- 8th JAN 2025

TIME	PARALLEL SESSION
9:30 AM-11:15 AM	SESSION 20: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING [Room no- 1240]
9:30 AM-11.15 AM	SESSION 21: MOBILE AND WIRELESS COMPUTING [Room no- 1241]
9:30 AM-11.00 AM	SESSION 22: SECURITY, TRUST AND PRIVACY [Room no- 1243]
9:30 AM-11.00 AM	SESSION 23: COMPUTER ARCHITECTURE AND VLSI, ENERGY MANAGEMENT AND GREEN COMPUTING [Room -AUDITORIUM]
11.00 AM- 11.30 AM	-----BREAK-----
11:30 PM – 1.00 PM	KEYNOTE 5: HOW AI AND SOFTWARE-DEFINED VEHICLES WILL TRANSFORM THE AUTOMOTIVE CUSTOMER EXPERIENCE By Dr. EVANGELOS SIMOUDIS [Room -AUDITORIUM] KEYNOTE 6: GENAI AND EDUCATION: CHALLENGES, OPPORTUNITIES AND SOME THOUGHTS By Dr. DRAGUTIN PETKOVIC [Room -AUDITORIUM]
1.00 PM-2.00 PM	-----LUNCH BREAK-----
2.00 PM – 4:00 PM	WORKSHOP 2: ASPECTS OF VIRTUAL REALITY [Room no- 1240]
2.00 PM–3:30 PM	SESSION 24: SECURITY, TRUST AND PRIVACY [Room no- 1241]
2.00 PM–3:30 PM	SESSION 25: SECURITY, TRUST AND PRIVACY [Room no- 1243]
2.00 PM–3:30 PM	SESSION 26: SECURITY, TRUST AND PRIVACY; WIRELESS COMMUNICATION [Room -AUDITORIUM]
3:30 PM- 4:00 PM	-----BREAK-----
4:00 PM- 5:30 PM	SESSION 27: WIRELESS COMMUNICATION, COMPUTER GRAPHICS AND MODELING [Room no- 1240]
4:00 PM- 5:30 PM	SESSION 28: SENSOR NETWORKS AND EMBEDDED SYSTEMS, HUMAN COMPUTER INTERACTION AND INTERFACE, QUANTUM COMPUTING AND BIG DATA [Room no- 1241]
4:00 PM- 5:45 PM	SESSION 29: MACHINE LEARNING AND WIRELESS COMMUNICATION [VIRTUAL SESSION] [Room no- 1243]
4:00 PM- 5.45 PM	SESSION 30: MACHINE LEARNING, AI AND WIRELESS COMMUNICATION [VIRTUAL SESSION] [Room- AUDITORIUM]
6.00 PM- 6.30 PM	Valedictory Session [Room no -1240]

All the timings are given in Pacific Standard Time (UTC-8)

PARALLEL SESSIONS

SESSION 20: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING			
SESSION CHAIR: NNAMDI NWANZE (NORTH CENTRAL COLLEGE, USA)			
SESSION TIME: 9:30 AM – 10.45 AM (DAY 3: 8th Jan 2025)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571097443	Privacy and Security Challenges in Large Language Models	Vishal H Rathod, Seyedsina Nabavirazavi, Samira Zad and S. s. Iyengar (Florida International University, USA)
9.45 AM -10.00 AM	1571096868	Trajectory Prediction in Autonomous Driving: a Comprehensive Review of Deep Learning Models and Future Direction	Siddharth Raina (Carnegie Mellon University, USA); Jeshwanth Challagundla (Google, USA & University of Texas at Arlington, USA); Mantek Singh (Liverpool John Moores University & Google, USA)
10.00 AM – 10.15 AM	1571095919	Navigating the Future: Predictive Modeling of Safety Perceptions and Adoption Readiness of Autonomous Vehicles for Public Safety Enhancement	Swarnamouli Majumdar (Zenext AI, Canada)
10.15 AM -10.30 AM	1571096866	Enhancing Course Planning With BERT-Infused GAT Embeddings and Integer Linear Programming	Luis J Olmos (California State University, Northridge, USA); Adam Kaplan (California State University Northridge, USA); Maryamsadat Jalalitarab (California State University, Northridge, USA)
10.30 AM -10.45 AM	1571095176	Securing QR Codes Infrastructure Using AI to Detect Malicious Activity	Luis Rivas (Johns Hopkins University, USA & United States Army, USA); Vinayak Khandelwal (Johns Hopkins University, USA); Varun Kumar Singh (Johns Hopkins University & Sigma Computing, USA)
10.45 AM – 11.00 AM	1571087188	AI and Generative AI-Driven Automation for Multi-Cloud and Hybrid Cloud Architectures: Enhancing Security, Performance, and Operational Efficiency	Dhruv Seth (Walmart Labs, USA); Karan Kumar Ratra and Aneeshkumar Perukilakattunirappel Sundareswaran (Walmart Global Tech, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 21: MOBILE AND WIRELESS COMPUTING			
SESSION CHAIR: ROBERT E HIROMOTO (UNIVERSITY OF IDAHO, USA)			
SESSION TIME: 9:30 AM – 11:15 AM (DAY 3: 8th Jan 2025)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571091470	Enhancing Security in VANETs Using Distributed Computing: a Review	Vamsi Krishna Pavuluri, Abinash Borah and Anirudh Paranjothi (Oklahoma State University, USA); Mohammad S Khan (East Tennessee State University, USA)
9.45 AM -10.00 AM	1571093504	An Accessible Indoor Wayfinding Application for Persons With Visual and Mobility Impairments	Uddipan Das, Amaan Gadatia and Brian Hong (The College of New Jersey, USA)
10.00 AM – 10.15 AM	1571086316	Enhancing WiFi Authentication: Leveraging OAuth for Secure and User-Friendly Wireless Networks	Sumanth Jain Pavagada Rajakumar (IEEE Member and Individual Researcher, USA & One H2, Inc, USA)
10.15 AM -10.30 AM	1571097022	A Proactive Crowdsourcing Framework for Fake Base Station Detection and Avoidance	Omar A. Saad and Ahmed A. Etman (Faculty of Engineering, Alexandria University, Egypt); Mai A. Abdel-Malek (The University of Arizona, USA); Mohamed Azab (CIS, Virginia Military Institute, USA)
10.30 AM -10.45 AM	1571096180	Introduction to Neighborhood Map-Based Sensor Network Medium Access Control Protocol	Eric Lee and Daniel Lee (Simon Fraser University, Canada)
10.45 AM – 11.00 AM	1571082039	Energy-Efficient Scheduling and Optimization in Edge Computing Based on Deep Q-Networks	Askar Madiyev, Daulet Bulegenov, Anuar Karzhaubayev, Meiram Murzabulatov and Dinh Mao Bui (Nazarbayev University, Kazakhstan)
11.00 AM – 11:15 AM	1571096184	IoT Risk Management in the Digital Economy: a Cybersecurity Perspective	Akalanka Bandara Mailewa (St. Cloud State University, USA); Mohan Kumar Gajula (Wells Fargo Bank, USA); Arunkumar Akutota (Mortgage Neks LLC Dba LoanNEX, USA); Thivanka Dissanayake Mohottalalage (St. Cloud State University, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 22: SECURITY, TRUST AND PRIVACY**SESSION CHAIR: AMANI ALTARAWNEH (TENNESSEE TECH UNIVERSITY, USA)****SESSION TIME: 9:30 AM – 11:00 AM (DAY 3: 8th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571090129	Food Supply Chain Contamination Detection and Sanitation Management With Blockchain Integration	Shereen Ismail (University of Michigan, USA); Diana W. Dawoud (University of Dubai, United Arab Emirates); Hassan Reza (University of North Dakota, USA); Fartash Vasefi (SafetySpect Inc., USA); Hamed Taheri Gorji and Kouhyar Tavakolian (University of North Dakota, USA)
9.45 AM -10.00 AM	1571096481	Leveraging QR Codes to Bypass Data Loss Prevention Solutions	Luis Rivas (Johns Hopkins University, USA & United States Army, USA); Varun Kumar Singh (Johns Hopkins University & Sigma Computing, USA); Vinayak Khadelwal (Commonwealth Financial Networks, USA); Bridget K. Kelly (Sans Institute, USA)
10.00 AM – 10.15 AM	1571096769	Game-Theoretic Analysis of Survival Probability in Mission-Critical Systems: Leveraging Component Diversity and Redundancy	Mohammad A Rahman, Adiba Samreen Mahmud, Samiha Nazrul and Fan Wu (Tuskegee University, USA)
10.15 AM -10.30 AM	1571096416	Chain Your Loot: Implementing Blockchain Into Gaming Loot Box Markets	Safa Ali, Breanne Robinson, Samantha Solomon and Samir Poudel (Middle Tennessee State University, USA); Akriti Sharma (Deerwalk Institute of Technology, Tribhuvan University, Nepal); Kritagya R Upadhyay (Middle Tennessee State University, USA)
10.30 AM -10.45 AM	1571097528	Time-Bound Deferred Authorization in 3DS 2.0: a Novel Approach to Balancing Security and User Experience in E-Commerce Payment Authentication	Aneeshkumar Perukilakattunirappel Sundareswaran (Walmart Global Tech, USA); Dhruv Seth (Walmart Labs, USA); Karan Kumar Ratra (Walmart Global Tech, USA)
10.45 AM -11.00 AM	1571088308	Towards Holochain-Based Adaptive Trust Management in Social Internet of Vehicles	Shereen Ismail (University of Michigan, USA); Eman Hammad (University of Toronto, Canada & Texas A&M University, USA); Razi Iqbal (Central Michigan University, USA)

All the timings are given in Pacific Standard Time (UTC-8)

**SESSION 23: COMPUTER ARCHITECTURE AND VLSI, ENERGY
MANAGEMENT AND GREEN COMPUTING**

SESSION CHAIR:

SESSION TIME: 9:30 AM – 10.45 AM (DAY 3: 8th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9.30 AM – 9.45 AM	1571086162	Survey of RISC-V Pipelines and Testers	Bryan Tovar, Connor Yee and Rian Ng (University of California, Davis); Hussain Al-Asaad (University of California, Davis, USA)
9.45 AM -10.00 AM	1571096864	Design and Implementation of 32-Bit MIPS-Based Softcore Processor With Enhanced Instruction Set on FPGA	Sharoon Sharif (Alabama A&M University, USA); Sita Kondamadugula (Alabama A & M University, USA); Patrick Jungwirth (Alabama A&M University, USA); Zhigang Xiao (AAMU, USA); Andrew Scott (Alabama A&M University, USA)
10.00 AM – 10.15 AM	1571093754	Anomaly Detection in IoT Computing Platform Using Self-Timed Data-Driven Processor	Hajime Maeda, Shuji Sannomiya, Keisuke Kameyama and Hotaka Takizawa (University of Tsukuba, Japan); Makoto Iwata (Kochi University of Technology, Japan); Hiroaki Nishikawa (University of Tsukuba, Japan)
10.15 AM -10.30 AM	1571095714	ML-PreP: Machine Learning Based Error Prediction for Phase Change Memory	Jake Ekoniak (University of California, Los Angeles, USA); Apoorva Rumale and Marjan Asadinia (California State University, Northridge, USA)
10.30 AM -10.45 AM	1571097204	Mitigation of Sub-Synchronous Oscillations to Improve Grid Stability and Efficiency Using EMT-Based Analysis and Frequency Scanning Algorithms	Muhammad Umar Afzaal (University of Tennessee, USA)

All the timings are given in Pacific Standard Time (UTC-8)

11:00 AM- 11:30 AM

COFFEE BREAK

KEYNOTE SESSION [DAY 3: 8th Jan 2025]

TIME	NAME OF THE EVENT
11:30 AM–12:15 PM	<p>KEYNOTE ADDRESS BY EVANGELOS SIMOUDIS (FOUNDER AND MANAGING DIRECTOR SYNAPSE PARTNERS)</p> <p>TITLE OF TALK: HOW AI AND SOFTWARE-DEFINED VEHICLES WILL TRANSFORM THE AUTOMOTIVE CUSTOMER EXPERIENCE</p>
12:15 AM–1:00 PM	<p>KEYNOTE ADDRESS BY DRAGUTIN PETKOVIC (PROFESSOR, SAN FRANCISCO STATE UNIVERSITY)</p> <p>TITLE OF TALK: GENAI AND EDUCATION: CHALLENGES, OPPORTUNITIES AND SOME THOUGHTS</p>

1:00 PM – 2:00 PM	LUNCH BREAK
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<p>Workshop on ASPECTS OF VIRTUAL REALITY BY Dr. Phillip Bradford (University of Connecticut, Stamford, USA)</p>	<p>2.00 PM- 4.00 PM</p>
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All the timings are given in Pacific Standard Time (UTC -8)

PARALLEL SESSIONS

SESSION 24: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: MADJID FATHI (UNIVERSITY OF SIEGEN, GERMANY)

SESSION TIME: 2:00 PM – 3:15 PM (DAY 3: 8th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571097605	Efficient Trajectory Prediction for Autonomous Vehicles: a Region-Based Subsampling Approach	Siddharth Raina (Carnegie Mellon University, USA)
2.15 PM – 2.30 PM	1571096852	Improving Small Object Detection With Area-Scaled and Dynamic Focal Loss	Siddharth Raina (Carnegie Mellon University, USA); Jeshwanth Challagundla (Google, USA & University of Texas at Arlington, USA); Sharada Acharya (Columbia, USA); Mantek Singh (Liverpool John Moores University & Google, USA)
2.30 PM – 2.45 PM	1571096465	StarryStudioAI: Automating UI Design With Code-Based Generative AI and RAG	Bhavik Patel, Poojan Gagrani, Smeet Sheth, Kashish Thakur, Priya Varahan and Simon Shim (San Jose State University, USA)
2.45 PM – 3.00 PM	1571096697	Automating Scale Extraction From Engineering Drawings: a Multi-Step Vision and Text Approach	Srirama Nakshathri (Infrd, India); Pratyusha Rasamsetty (Infrd, USA); Deepak Kumar (Infrd, India)
3.00 PM – 3.15 PM	1571071077	Secure Authentication in the Presence of Malicious Messages and Packet Reorders: Study on CAN Bus	Sofia Maragkou (TUW, Austria); Nikos Papatheodorou and Miltos Grammatikakis (Hellenic Mediterranean University, Greece); Axel Jantsch (TU Wien, Austria)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 25: SECURITY, TRUST AND PRIVACY**SESSION CHAIR: TRAIAN M TRUTA (NORTHERN KENTUCKY UNIVERSITY,
USA)****SESSION TIME: 2:00 PM – 3:30 PM (DAY 3: 8th Jan 2025)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571096086	Secret Key Derivation for IoT / umMTC Based on RF Channel Properties	Robert Zakrzewski, Robert J Piechocki and Mark Beach (University of Bristol, United Kingdom (Great Britain))
2.15 PM – 2.30 PM	1571075854	Towards a Quantum-Resistant HashBlock Signature Scheme for Secure IoT Applications	Efat Fathalla (Virginia Military Institute, USA & VMI, USA); Michael W Jorgensen and Sean Harvey (Virginia Military Institute, USA); Mohamed Azab (CIS, Virginia Military Institute, USA)
2.30 PM – 2.45 PM	1571067889	Towards In-Depth Trustworthy Communications in NextG Networks	Yomna Ibrahim (Alexandria University, Egypt); Mai A. Abdel-Malek (The University of Arizona, USA); Mohamed Azab (CIS, Virginia Military Institute, USA); Mohamed Rizk (Alexandria University, Egypt)
2.45 PM – 3.00 PM	1571097731	Efficient Medical File Protection via Adaptive CRP-Based Ephemeral Key Encapsulation and Robust Error Correction	Adil Alshammari, Dina Ghanai Miandoab, Sareh Assiri, Bertrand Cambou and Brit Riggs (Northern Arizona University, USA)
3.00 PM – 3.15 PM	1571096166	Correlated Anomalous Pattern Mining From Transactional Cybersecurity Dataset	Maliha Momtaz (University of Maryland Global Campus, USA); Rodney Leslie and Faisal Quader (University of Maryland Baltimore County, USA); George Dimitoglou (Hood College, USA); Ashutosh Latwala (University of Maryland Baltimore County, USA)
3.15 PM – 3.30 PM	1571081639	Using the y-Intercept in Collision Attacks for Encryption	Mandeep Singh (USA); Albert H Carlson (Quantum Security Alliance, USA); Christopher Briscoe (Emet Classical Academ, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 26: SECURITY, TRUST AND PRIVACY; WIRELESS COMMUNICATION

SESSION CHAIR: AMANI ALTARAWNEH (TENNESSEE TECH UNIVERSITY, USA)

SESSION TIME: 2:00 PM – 3:30 PM (DAY 3: 8th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 PM – 2.15 PM	1571097715	SPADE: Enhancing Adaptive Cyber Deception Strategies With Generative AI and Structured Prompt Engineering	Shihab Ahmed (Towson University, USA); A B M Mohaimenur Rahman (The University of North Carolina at Charlotte, USA); Md Morshed Alam (Old Dominion University, USA); Md Sajidul Islam Sajid (Towson University, USA)
2.15 PM – 2.30 PM	1571096459	Examining the Threat Landscape of Generative AI: Attack Vectors and Mitigation Strategies for LLMs	Zach L Taylor (Middle Tennessee State University, USA); Akriti Sharma (Deerwalk Institute of Technology, Tribhuvan University, Nepal); Kritagya R Upadhyay (Middle Tennessee State University, USA)
2.30 PM – 2.45 PM	1571095718	Terahertz Demultiplexers Suspended in Air Using 3D Printing Technique	Babak Yahyapour (Polytechnique Montreal, Canada); Frederic Marcotte (Université Laval, Canada); Roya Gachiloo (École Polytechnique de Montréal, Canada); Maksim Skorobogatiy (Ecole Polytechnique de Montreal, Canada)
2.45 PM – 3.00 PM	1571095743	Wearable SLAM System in GPS-Denied Environments	Francis C. Palustre and Paul Oh (University of Nevada, Las Vegas, USA)
3.00 PM – 3.15 PM	1571097661	Increasing Guard Band Size to Decrease Interference in V2X Communication	Nakira A Oglesby and Billy Kihei (Kennesaw State University, USA); Mackenzie Prescott (Kennesaw State University, USA)
3.15 PM – 3.30 PM	1571093271	Demystifying the Impact of Multi-RAT Ranging for 6G Metaverse Users	Alireza Famili and Tolga O Atalay (Virginia Tech, USA); Angelos Stavrou (Virginia Tech & Kryptowire, USA)

3:30 PM- 4:00 PM

COFFEE BREAK

All the timings are given in Pacific Standard Time (UTC-8)

PARALLEL SESSIONS

SESSION 27: WIRELESS COMMUNICATION, COMPUTER GRAPHICS AND MODELING

SESSION CHAIR: ROBERT E HIROMOTO (UNIVERSITY OF IDAHO, USA)

SESSION TIME: 4:00 PM – 5:30 PM (DAY 3: 8th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571096448	Integrated Satellite-Terrestrial Network for Smart Grid Communications in 6G Era	Anas A Bisu (Durham University, United Kingdom (Great Britain) & Bayero University, Kano, Nigeria); Hongjian Sun and Andrew Gallant (Durham University, United Kingdom (Great Britain))
4.15 PM – 4.30 PM	1571080725	Machine Learning-Based GPU Energy Prediction for Workload Management in Datacenters	Brandon Ismalej, Matthew C Smith and Xunfei Jiang (California State University, Northridge, USA)
4.30 PM – 4.45 PM	1571090154	Hybrid Equalization and Interference Suppression for Orthogonal Chirp Division Multiplexing Systems	Tarak Arbi (ENSTA Paris, France); Bruno Monsuez (Ensta Paris, France); Benoît Geller (ENSTA ParisTech, France)
4.45 PM – 5.00 PM	1571086924	Dynamic Optical Model for Time-Based Enhancement of Augmented Reality Environments	Qi Zhang (Illinois State University, USA)
5.00 PM – 5.15 PM	1571096630	Automating Large-Scale Detection and Classification of Larger Than Life Cellular Automata Patterns	Brandon Ismalej and Kellie Michele Evans (California State University, Northridge, USA)
5:15 PM – 5.30 PM	1571096862	Enhancing Power Quality in Smart Grids: Coordinated Control of Voltage and Current Harmonics Using Dual-Interface Converters	Harsh Kumar (University of Indianapolis, USA); Petro Mushidi Tshakwanda and Michael Devetsikiotis (University of New Mexico, USA)

All the timings are given in Pacific Standard Time (UTC-8)

**SESSION 28: SENSOR NETWORKS, HUMAN COMPUTER INTERACTION AND
INTERFACE, QUANTUM COMPUTING AND BIG DATA**

SESSION CHAIR: AREF SMILEY (UNIVERSITY OF UATH, USA)

SESSION TIME: 4:00 PM – 5:30 PM (DAY 3: 8th Jan 2025)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571096791	Real-Time 3D Visualization of Radiation Measurements From a Multi-Modal Directional System in GPS Denied Environments	Nathan A Kassai and Paul Oh (University of Nevada, Las Vegas, USA)
4.15 PM – 4.30 PM	1571076167	Study of Primitive Input Methods in Mobile Virtual Reality Systems for Educational Applications	Chunming Gao (Central Washington University, USA)
4.30 PM – 4.45 PM	1571097876	The Design and Evaluation of Food Villain, a Serious Game to Promote Healthy Nutrition	Victor Okpanachi and Ifeoma Adaji (The University of British Columbia, Canada)
4.45 PM – 5.00 PM	1571095924	Majorana Nanowires for Topological Quantum Computing	Chuck Easttom (Vanderbilt University, USA & Georgetown University, USA)
5.00 PM – 5.15 PM [virtual]	1571097294	Experimentations for Enhancing Data Security Resilience of Energy Infrastructure	Sanjeev Kumar (University of Texas - RGV, USA); Maximiliano Garcia (The University of Texas - RGV, USA)
5:15 PM – 5.30 PM [virtual]	1571095737	Analyzing Premier League Popularity Through Twitter Data	Traian M Truta, Alina Campan and Joe Cobbs (Northern Kentucky University, USA); B David Tyler (University of Massachusetts Amherst, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 29: MACHINE LEARNING AND WIRELESS COMMUNICATION [VIRTUAL SESSION]**SESSION CHAIR: EMAN ABDELFATTAH [SACRED HEART UNIVERSITY]****SESSION TIME: 4.00 PM- 5.45 PM (DAY 3: 8th Jan 2025)****PARTICIPATION LINK: [CLICK HERE](#)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571097584	Impact of Seasonal Rain Heights on Rain-Induced Attenuation for Communication Systems Operating at Ka and V Bands in Pretoria, South Africa	Yusuf Babatunde Lawal, Pius Adewale Owolawi, Chunling Tu and E. A. Van Wyk (Tshwane University of Technology, South Africa); Joseph Ojo (Federal University of Technology Akure, Nigeria)
4.15 PM – 4.30 PM	1571097654	Breaking the Fake: a CNN-BiLSTM Approach to Fake News Detection on Social Media	Uma Chinta and Rohit Viswakarma Pidishetti (Texas Tech University, USA)
4.30 PM – 4.45 PM	1571097572	Automated Image Identification and Classification of Tiger Beetles Based on Deep Learning Model	Himanshu Sinha (Indiana University Bloomington & Marriott International, USA); Milavkumar Shah (The University of Texas at Dallas, USA)
4.45 PM – 5.00 PM	1571095558	Structure Adaptive Control With Neuron Pruning-Growing Strategy for Spiking Neural Networks	Zhengyi Zhang, Xianghong Lin, Chun Li and Jiahua Liu (Northwest Normal University, China)
5.00 PM – 5.15 PM	1571095474	A Survey of Curriculum Learning in Deep Reinforcement Learning	Siyu Lin (Northeastern University of China, China); Qingwei Mi (Northeastern University, China); Tianhan Gao (Northeastern University of China, China)
5.15 PM – 5.30 PM	1571096885	Collaborative Proof-of-Work: a Secure Dynamic Approach to Fair and Efficient Blockchain Mining	Rizwanul Haque Rizvi and SM Tareq Aziz (University of Dhaka, Bangladesh); Tahrim Hossain and Faisal Haque Bappy (Syracuse University, USA); Muhammad Nur Yanhaona (Brac University, Bangladesh); Tariqul Islam (Syracuse University, USA)
5.30 PM – 5.45 PM	1571096892	Real-Time Video Object Segmentation to Improve the Safety of Autonomous Systems	Brook Abegaz (Loyola University Chicago, USA)

All the timings are given in Pacific Standard Time (UTC-8)

SESSION 30: MACHINE LEARNING, AI AND WIRELESS COMMUNICATION [VIRTUAL SESSION]**SESSION CHAIR: HEBA MOHAMED ELGAZZAR [MOREHEAD STATE UNIVERSITY]****SESSION TIME: 4.00 PM- 5.45 PM (DAY 3: 8th Jan 2025)****PARTICIPATION LINK: [CLICK HERE](#)**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4.00 PM – 4.15 PM	1571095739	AROhI: an Interactive Toolkit for Estimating ROI of Data Analytics	Gouri Ginde (University of Calgary, Canada); Noopur Zambare (Dept. of Mechanical Engineering, Indian Institute of Technology Jodhpur, India); Jacob Idoko and Jagrit Acharya (Dept. of Electrical and Software Engineering, University of Calgary, Canada)
4.15 PM – 4.30 PM	1571095561	Spiking Graph Convolutional Neural Network for EEG-Based Motor Imagery Classification	Chun Li, Xianghong Lin, Jiahua Liu and Zhengyi Zhang (Northwest Normal University, China)
4.30 PM – 4.45 PM	1571095565	An Online Spike Pattern Learning Algorithm Based on Local Variable Driven STDP	Jiahua Liu, Xianghong Lin, dewatZhang and Chun Li (Northwest Normal University, China)
4.45 PM – 5.00 PM	1571097567	Early Prediction and Classification of Breast Cancer Survival Based on Machine Learning Models	Himanshu Sinha (Indiana University Bloomington & Marriott International, USA); Milavkumar Shah (The University of Texas at Dallas, USA)
5.00 PM – 5.15 PM	1571094214	Precision Agriculture With Centralized IoT-Enabled Greenhouse Management for Sustainable Vanilla Production	Deethila Karunathilaka (SLIIT, Sri Lanka)
5.15 PM – 5.30 PM	1571096890	Proactive Computing Methods for the State of Charge and State of Health Estimation in Smart Grids	Brook Abegaz (Loyola University Chicago, USA)
5.30 PM – 5.45 PM	1571096494	Enhanced Onychomycosis Diagnosis Using a Dynamic Weighted Ensemble Classifier: Integrating LightGBM and Transfer Learning With a Game Theory Approach	Wail M Idress, Sr (Central South University, China, and Sudan International University, Sudan); Yuqian Zhao and Khalid A. Abouda (Central South University, China); Aala A Ahmed (Sudan University of Science and Technology, Sudan); Wifag Hassan, Ola Abdalla and Tahani Elhindi (Khartoum Teaching Hospital of Dermatology and Venereology, Sudan)

**VALEDICTORY
SESSION****6.00 PM – 6.30 PM****All the timings are given in Pacific Standard Time (UTC-8)**