











IEEE CCWC 2024

2024 IEEE 14th Annual Computing and Communication Workshop and Conference (CCWC)

Physical Conference (University of Nevada, Las Vegas, USA)

8th – 10th January 2024

All the timings are given in Pacific Standard Time (PST (UTC-08))

TECHNICAL SCHEDULE CONTENTS

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
	INAUGURATION	9:00 AM-9:30 AM	5
	KEYNOTE 1: NASA TECHNOLOGIES TO EXPLORE THE UNIVERSE	9:30 AM-10:15 AM	5
DAY 1	KEYNOTE 2:	10:15 AM-11:00 AM	5
(8TH	COFFEE BREAK	11:00AM-11:30AM	5
JAN	SESSION 1: ALGORITHMS AND THEORY	11:30AM-12:45 PM	7
2024)	SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	11:30AM-12:45 PM	8
	SESSION 3: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	11:30AM-12:45 PM	9
	LUNCH BREAK	1:00 PM- 2:00 PM	9
	SESSION 4: ALGORITHMS AND THEORY; AI	2:00 PM-3:15 PM	10
	SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	2:00 PM-3:15 PM	11
	SESSION 6: COMPUTATIONAL INTELLIGENCE	2:00 PM-3:15 PM	12
	COFFEE BREAK	3:15 PM- 3:45 PM	12
	SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	3:45 PM-5:15 PM	13
	SESSION 8: BIG DATA, DATA MANAGEMENT AND ANALYTICS; AI	3:45 PM- 5:00 PM	14

All the timings are given in Pacific Standard Time (PST (UTC-08))

EVENT DETAILS	TIMING	PAGE NUMBER
KEYNOTE 3: DEMOCRATIZE AND PERSONALIZE HEALTHCARE VIA WEARABLES AND GENERATIVE AI	9:00 AM-9:45 AM	15
KEYNOTE 4: SELF-ORGANIZING INCLUSIVE NETWORKS: THE KEY TO GLOBAL FOOD SUFFICIENCY	9:45 AM-10:30 AM	15
KEYNOTE 5: REDUCING PREVENTABLE MEDICAL ERRORS WITH COMPUTER SYSTEMS AND BEYOND	10:30 AM-11:15 AM	15
COFFEE BREAK	11:15 AM - 11:45 AM	15
SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	11:45 AM-1:00 PM	16
SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	11:45 AM-12:45 PM	17
SESSION 11: COMPUTER ARCHITECTURE AND VLSI; AI	11:45 AM-1:00 PM	18
LUNCH BREAK	1:00 PM - 2:00 PM	18
SESSION 12: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	2:00 PM-3:00 PM	19
SESSION 13: COMPUTER GRAPHICS, SIMULATION; PARALLEL ALGORITHMS AND PATTERN RECOGNITION	2:00 PM-3:00 PM	20
SESSION 14: CRYPTOGRAPHY AND SECURITY	2:00 PM-3:30 PM	21
COFFEE BREAK	3:15 PM – 3:45 PM	21
SESSION 15: SECURITY AND PRIVACY	3:45 PM-5:00 PM	22
SESSION 16: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	3:45 PM-5:00 PM	23
	KEYNOTE 3: DEMOCRATIZE AND PERSONALIZE HEALTHCARE VIA WEARABLES AND GENERATIVE AI KEYNOTE 4: SELF-ORGANIZING INCLUSIVE NETWORKS: THE KEY TO GLOBAL FOOD SUFFICIENCY KEYNOTE 5: REDUCING PREVENTABLE MEDICAL ERRORS WITH COMPUTER SYSTEMS AND BEYOND	KEYNOTE 3: DEMOCRATIZE AND PERSONALIZE HEALTHCARE VIA WEARABLES AND GENERATIVE AI KEYNOTE 4: SELF-ORGANIZING INCLUSIVE NETWORKS: THE KEY TO GLOBAL FOOD SUFFICIENCY KEYNOTE 5: REDUCING PREVENTABLE MEDICAL ERRORS WITH COMPUTER SYSTEMS AND BEYOND

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
	KEYNOTE 6: ONLINE COMPETITIVE TECHNIQUES FOR THE INTEGRATION OF RENEWABLE ENERGY INTO THE SMART GRID	9:00 AM-9:45 AM	24
	KEYNOTE 7: THE FUTURE OF WORK: AI, DEVELOPERS, AND LEADING LIKE A SCIENTIST	9:45 AM-10:30 AM	24
DAY 3	COFFEE BREAK	10:30 AM-11:00AM	24
(10th Jan 2024)	WORKSHOP ON "ASPECTS OF VIRTUAL REALITY" BY DR. PHILLIP BRADFORD (UNIVERSITY OF CONNECTICUT, STAMFORD, USA)	11:00 AM-2:00 PM	24
	SESSION 17: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	11:00AM-12:15 PM	25
	SESSION 18: SECURITY, TRUST AND PRIVACY	11:00AM-12:15 PM	26
	SESSION 19: WIRELESS COMPUTING	11:00AM-12:15 PM	27
	LUNCH BREAK	12:30 PM - 1:30 PM	27
	SESSION 20: SYSTEMS AND SOFTWARE ENGINEERING; AI	1:30 PM-2:45 PM	28
	SESSION 21: SIGNAL PROCESSING; QOS; SENSOR NETWORKS AND CONTROL SYSTEM	1:30 PM-2:45 PM	28
	COFFEE BREAK	2:45 PM – 3:15 PM	28
	SESSION 22: GRAPHICS; AI; ROBOTICS AND CONTROL SYSTEMS	3:15 PM - 5:00 PM	29
	SESSION 23: ROBOTICS; AI; BIG DATA AND VLSI	3:15 PM – 5:15 PM	30
	VALEDICTORY SESSION	5:30 PM-6:15 PM	30

DAY 1: 8TH **JANUARY 2024**

TIME	NAME OF THE EVENT
9:00 - 9:30 AM	INAUGURATION
9:30 AM - 10:15 AM	KEYNOTE ADDRESS BY GOUTAM CHATTOPADHYAY (SENIOR RESEARCH SCIENTIST, JET PROPULSION LABORATORY, NASA, USA) TITLE FOR TALK: NASA TECHNOLOGIES TO EXPLORE THE UNIVERSE
10:15 AM - 11:00 AM	KEYNOTE ADDRESS BY MATTHEW K. FARREN (PROFESSOR, UNIVERSITY OF CALIFORNIA, DAVIS) TITLE OF TALK: THE IMPORTANCE OF UNDERSTANDING THE COMMODITY SERVER IN NETWORKED
	COMPUTER SYSTEMS

11:00 AM - 11:30 AM COFFEE BREAK	
----------------------------------	--

All the timings are given in Pacific Standard Time (PST (UTC-08))

DAY 1: 8TH JANUARY 2024

TIME	PARALLEL SESSION
11:30AM-12:30 PM	SESSION 1: ALGORITHMS AND THEORY
11:30AM-12:45 PM	SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
11:30AM-12:45 PM	SESSION 3: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
2:00 PM-3:00 PM	SESSION 4: ALGORITHMS AND THEORY; AI
2:00 PM-3:00 PM	SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
2:00 PM-3:15 PM	SESSION 6: COMPUTATIONAL INTELLIGENCE
3:45 PM-5:15 PM	SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
3:45 PM- 5:15 PM	SESSION 8: BIG DATA, DATA MANAGEMENT AND ANALYTICS; AI

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 1: ALGORITHMS AND THEORY					
SESSION CHAIR: QINGXUE ZHANG (PURDUE UNIVERSITY INDIANAPOLIS, USA)					
		SESSION TIME: 11:30 AM – 12:30 P	M (DAY 1: 8 th Jan 2024)		
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY		
	1570978322	Accurate and Efficient Implementations of	Haotian Zhai and Bernd-Peter Paris (George Mason University, USA)		
11:30 AM -11:45 AM		Recursive Filtering Based on SIMD and			
		Cascaded Form			
11:45 AM – 12:00 PM	1570975607	Deep Learning and Game Theory for AI-Enabled	Yuan Xing, Dongfang Hou, Jason Liu, Holly Yuan, Abhishek Verma and Wei Shi		
		Human-Robot Collaboration System Design in	(University of Wisconsin-Stout, USA)		
		Industry 4.0			
12:00 PM - 12:15 PM	1570975167	Next-Generation Reservoir Computing (NG-RC)	Andre Slonopas (American Public University System, USA)		
		Machine Learning Model for Advanced			
		Cybersecurity			
	1570978367	Efficient Repair Configuration Algorithm, for	Vivek Nautiyal(Arm inc, USA)		
12:15 PM -12:30 PM		Improving Yield of Semiconductor Memories			

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING				
SESSION CHAIR: XIAOHE WU (BETHUNE-COOKMAN UNIVERSITY, USA)				
SESSION TIME: 11:30 AM – 12:45 PM (DAY 1: 8 th Jan 2024)				
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY	
11:30 AM -11:45 AM	1570972237	FedBayes: A Zero-Trust Federated Learning Aggregation to Defend Against Adversarial Attacks	Marc Vucovich (Deloitte, USA); Devin Quinn (Deloitte and Touche LLP, USA); Kevin Choi (Deloitte and Touche LLP, USA); Christopher Redino (Deloitte & Touche LLP, USA); Abdul Rahman (Deloitte & Touche LLP, USA); Edward Bowen (Deloitte & Touche LLP, USA);	
11:45 AM – 12:00 PM	1570978130	Image Based and Point Cloud Based Methods for 3D View Reconstruction in Real-Time Environment	Arya Agrawal (VIT Vellore, India); Teena Sharma (Indian Institute of Technology Guwahati, India); Nishchal K Verma (Indian Institute of Technology Kanpur, India); Shantaram Vasikarla (California State University-Northridge, USA)	
12:00 PM - 12:15 PM	1570976927	Early Prediction of Characteristic Compressive Strength of Concrete Based on Mix Proportions Using Modified Dimensional Analysis	Nikhil M Pawar (Texas State University, USA); Shubham Gujar (University of Southern California, USA); Hemant B Dhonde (C Probe LLC, USA); Damian Valles (Texas State University, USA)	
12:15 PM -12:30 PM	1570977990	Exploring the Influence of Preoperative Variables on Patient Satisfaction: A Machine Learning Approach in Rotator Cuff Repair Surgeries	Arti Taneja (University of Cincinnati, USA)	
12:30 PM – 12:45 PM	1570977952	Imputing ADS-B/GPS Dropouts Using Machine Learning	Barathwaja Subash Chandar (University of North Dakota, USA); Prakash Ranganathan (University of North Dakota, United Kingdom (Great Britain)); William Semke (University of North Dakota, USA)	

SESSION 3: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING					
	SESSION CHAIR: SAIKAT DAS (UTAH VALLEY UNIVERSITY, USA)				
		SESSION TIME: 11:30 AM – 12:45 PM	I (DAY 1: 8 th Jan 2024)		
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY		
11:30 AM -11:45 AM	1570978329	Revolutionizing Mental Health Care Through LangChain: A Journey With a Large Language Model	Aditi Singh (Cleveland State University, USA); Jong-Hoon Kim (Kent State University, USA); Abul Ehtesham (The Davey Tree Expert Company, USA); Saifuddin Mahmud (Bradley University, USA)		
11:45 AM – 12:00 PM	1570978225	Large Language Model-Based Architecture for Automatic Outcome Data Extraction to Support Meta-Analysis	Fatemeh Shah-Mohammadi (University of Utah, USA); Joseph Finkelstein (University of Utah, School of Medicine, USA)		
12:00 PM - 12:15 PM	1570978227	Conversational Swarm Intelligence Amplifies the Accuracy of Networked Groupwise Deliberations	Louis Rosenberg, Gregg Willcox and Hans Schumann (Unanimous AI, USA)		
12:15 PM -12:30 PM	1570976122	Machine Learning Approaches for COVID-19 Sentiment Analysis: Unveiling the Power of BERT	Shobhit Srivastava (University of Engineering & Management Jaipur & Dr Rammanohar Lohia Avadh University Ayodhya UP, India); Mrinal Sarkar (University of Engineering and Management Jaipur, India); Chinmay Chakraborty (Birla Institute of Technology, Mesra, India)		
12:30 PM – 12:45 PM	1570978230	Advancing Cattle Health: AI-Driven Innovations in Lameness Detection and Management	Mehdi Roopaei (University of Wisconsin - Platteville, USA); Collin Bergmann (University of Wisconsin-Platteville, USA); Asad Azemi (University of Maryland Eastern Shore, USA); Krista Hardyman (University of Wisconsin-Platteville, USA); James Hampton (University of Wisconsin-Plattevil, USA)		

Lunch Break	1:00 PM- 2:00 PM
-------------	------------------

SESSION 4: ALGORITHMS AND THEORY; AI

SESSION CHAIR: HAYSSAM EL-RAZOUK (CALIFORNIA STATE UNIVERSITY, FRESNO, USA)

SESSION TIME: 2:00 PM – 3:00 PM (DAY 1: 8th Jan 2024)

ı	DEBBION TIME. 2.00 I M = 3.00 I M (DAT 1. 0 3an 2024)			
	TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
	2:00 PM - 2:15 PM	1570977830	Building a Cloud Infrastructure for Virtual Machine Scheduling in Datacenters	Jonathan Chua and Xunfei Jiang (California State University, Northridge, USA)
	2:15 PM -2:30 PM	1570976263	Assessing the Contamination Intensity of Porcelain Insulators Using Deep Learning Networks by UAV	Balbir(Bob) Gill (British Columbia Institute of Technology, Canada)
•	2:30 PM -2:45 PM	1570977983	Online Supervised Learning Algorithm for Dendritic Spiking Neural Networks With Nonlinear Synaptic Integration	Yaohui Zou, Xianghong Lin and Yuan Zhao (Northwest Normal University, China)
	2:45 PM -3:00 PM	1570978229	Distributed and Efficient Storage of High- Dimensional Data Using Artificial Neural Network	Xiaohe Wu (Bethune-Cookman University, USA); Ahmed Badi (Bethune-Cookman University & College of Science, Engineering, and Mathematics, USA); Juan M Calderon (Universidad Santo Tomas, USA)

All the timings are given in Pacific Standard Time (PST (UTC-08))

	SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING				
	SESSION CHAIR: QINGXUE ZHANG (PURDUE UNIVERSITY INDIANAPOLIS, USA)				
	SESSION TIME: 2:00 PM - 3:00 PM (DAY 1: 8 th Jan 2024)				
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY		
	1570978304	GlitchOS: An Open Source Virtual Assistant	William E Husen (University of Wisconsin, USA); Hynek Boril (University of		
2:00 PM - 2:15 PM			Wisconsin-Platteville, USA); Mehdi Roopaei (University of Wisconsin - Platteville,		
			USA)		
	1570975786		Luis Rivas, Spencer Stevens, Andrew Zitter, Amodini Vardhan, Chinmay Lohani and		
2:15 PM - 2:30 PM		Autonomous Ships	Vinayak Khandelwal (Johns Hopkins University, USA); Chris Rouff (JHU APL,		
			USA); Lanier Watkins (Johns Hopkins University Information Security Institute,		
	1.550055512	1.7.11.12.61.71.1	USA)		
2.20 PM . 2.45 PM	1570975542	A Prediction Model for Short Price Jump in	Mohammadjavad Rajaei and Qusay Mahmoud (Ontario Tech University, Canada)		
2:30 PM - 2:45 PM		Cryptocurrency Market			
	1570978166	Estimating CDC/ADC D. Drop outs in the Onen Clay	Anton D. Claudel (University, Descende LICA), Alabert Dem Demokender (University)		
2:45 PM -3:00 PM	13/09/8100	Estimating GPS/ADS-B Dropouts in the Open Sky Network Platform	Anton R Skurdal (University Research, USA); Akshay Ram Ramchandra (University of North Dakota, USA); Prakash Ranganathan (University of North Dakota, United		
2.13111 3.00111		NELWOIK FIALIOIIII	Kingdom (Great Britain))		
			Kingdom (Oreat Dittain))		

SESSION 6: COMPUTATIONAL INTELLIGENCE				
S	ESSION CHAIR: XIA	OHE WU (BETHUNE-COOKMAN	UNIVERSITY, USA)	
	SE	SSION TIME: 2:00 PM – 3:15 PM	(DAY 1: 8 th Jan 2024)	
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY	
2:00 PM - 2:15 PM	1570972233	Improving Performance and Battery Consumption Through Edge Computing	Dan Myers and Wei Hao (Northern Kentucky University, USA)	
2:15 PM - 2:30 PM	1570978135	Optimal Task Admission Control of Private Cloud Data Centers With Limited Resources	Yuhong Zhang and Wei Li (Texas Southern University, USA)	
2:30 PM -2:45 PM	1570978705	Advancing Occupancy Detection Through Deep Learning and Sensor Integration	Rakeshkumar Mahto and Kanika Sood (California State University, Fullerton, USA)	
2:45 PM -3:00 PM	1570977491	A Survey and Comparative Analysis of Methods for Countering Sybil Attacks in VANETs	Gideon Adele and Abinash Borah (Oklahoma State University, USA); Anirudh Paranjothi (Oklahoma State University, USA & Stillwater, USA); Mohammad S Khan (East Tennessee State University, USA)	
3:00 PM - 3:15 PM	1570978332	Design of a Novice-Friendly Drone Control System	Jinsai Cheng (Kent State University, USA); Saifuddin Mahmud and Misbahuddin Mohammed (Bradley University, USA); Aditi Singh (Cleveland State University, USA); Jong-Hoon Kim (Kent State University, USA)	

Coffee Break	3:15 PM- 3:45 PM
--------------	------------------

SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: SAIKAT DAS (UTAH VALLEY UNIVERSITY, USA)

SESSION TIME: 3:45 PM – 5:15 PM (DAY 1: 8th Jan 2024) PAPER NAME TIME ALLOTTED **PAPER ID AUTHORS WITH AFFILIATION & COUNTRY** 1570977923 Elephant: LLM System for Accurate Trung Thanh Nguyen and Praise Chinedu-Eneh (Winona State University, Recantations 3:45 PM - 4:00 PMUSA) Jaya Preethi Mohan (University of North Dakota, USA); Prakash Hierarchical Software Framework for Ranganathan (University of North Dakota, United Kingdom (Great 4:00 PM -4:15 PM Safe Unmanned Aerial Systems 1570978339 Britain)); Hassan Reza (University of North Dakota, USA) Integration into National Airspace (NAS) Ayesh Meepaganithage (University of Nevada, Reno, USA); Suman Rath Feature Selection Using the Advanced (University of Nevada, USA); Mircea Nicolescu and Monica Nicolescu 4:15 PM -4:30 PM 1570975608 Shapley Value (University of Nevada Reno, USA); Shamik Sengupta (University of Nevada, Reno, USA) Kossi D Bissadu and Gahangir Hossain (University of North Texas, USA) 1570975835 Designing a Machine Learning Course 4:30 PM - 4:45 PMon Cyberthreat Analytics Tailored for **High School Students** 1570976265 Stochastic Optimization on Parking Balbir (Bob) Gill (British Columbia Institute of Technology, Canada) 4:45 PM- 5:00 PM Lots for Smart Parking Using Reinforcement Learning Methods Decentralized Clustering for Rural 1570978543 Chandler Scott and Mohammad S Khan (East Tennessee State University, 5:00 PM - 5:15 PMInternet of Vehicles Using Federated USA); Anirudh Paranjothi (Oklahoma State University, USA & Stillwater, Deep Reinforcement Learning USA); Joshua Qiang Li (Oklahoma State University, USA)

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 8: BIG DATA, DATA MANAGEMENT AND ANALYTICS; AI						
S	SESSION CHAIR: ANDREW J. PARK (TRINITY WESTERN UNIVERSITY, CANADA)					
	SE	SSION TIME: 3:45 PM – 5:15 PM	(DAY 1: 8 th Jan 2024)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY			
3:45 PM - 4:00 PM	1570972484	Knowledge-Based Modeling Approach: A Schematic Design of Artificial Intelligence of Things (AIoT) for Hydrogen Energy System	Sanguk Park, Kihyeon Kwon and Salaki Reynaldo Joshua (Kangwon National University, Korea (South))			
4:00 PM -4:15 PM	1570975844	Analysis of Hockey Forward Line Corsi: Should the Focus Be on Forward Pairs?	Samuel Brownlee, Ayesha Khan, Barnaby Vanderzyland Mohamad El-Hajj (MacEwan University, Canada)			
4:15 PM -4:30 PM	1570968026	Development of an Augmented Reality Handwashing Tool for Children With Autism Spectrum Disorder	Evan R Smith, Rachel Koldenhoven, John W Farrell III, Semih Aslan, Maria D Resendiz and Yumeng Li (Texas State University, USA); Ting Liu (Texas A&M University - San Antonio, USA); Damian Valles (Texas State University, USA)			
4:30 PM - 4:45 PM	1570978087	Taxonomy Mining From a Smart City CMS Using the Multidimensional Knowledge Representation Approach	Johannes Zenkert and Madjid Fathi (University of Siegen, Germany)			
4:45 PM- 5:00 PM	1570977685	Hypergraph Transformer for Knowledge Tracing	Xianrun He, Xianghong Lin and Yuan Zhao (Northwest Normal University, China)			
5:00 PM - 5:15 PM	1570978291	SE-DO: Navigating the 6G Frontier With Scalable and Efficient DevOps for Intelligent Agents Optimization	Petro Mushidi Tshakwanda, Harsh Kumar, Sisay Tadesse Arzo and Michael Devetsikiotis (University of New Mexico, USA)			

DAY 2: 9th Jan 2024

TIME	NAME OF THE EVENT
9:00 AM - 9:45 AM	VENNOTE ADDRESS DV CATHEDINE EANS (CADNESIE MELLON UNIVERSITY)
	KEYNOTE ADDRESS BY CATHERINE FANG (CARNEGIE MELLON UNIVERSITY)
	TITLE OF TALK: DEMOCRATIZE AND PERSONALIZE HEALTHCARE VIA WEARABLES AND GENERATIVE AI
9:45 AM - 10:30 AM	
	KEYNOTE ADDRESS BY FOROUZAN GOLSHANI (CALIFORNIA STATE UNIVERSITY, LONG BEACH)
	TITLE OF TALK: SELF-ORGANIZING INCLUSIVE NETWORKS: THE KEY TO GLOBAL FOOD SUFFICIENCY
10:30 AM - 11:15 AM	
	KEYNOTE ADDRESS BY SHANGPING REN (SAN DIEGO STATE UNIVERSITY)
	TITLE OF TALK: REDUCING PREVENTABLE MEDICAL ERRORS WITH COMPUTER SYSTEMS AND BEYOND

11:15 AM – 11:45 AM	COFFEE BREAK

All the timings are given in Pacific Standard Time (PST (UTC-08))

Day 2: 9th Jan 2024

TIME	PARALLEL SESSION
11:45 AM-1:00 PM	SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
11:45 AM-12:45 PM	SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
11:45 AM-1:00 PM	SESSION 11: COMPUTER ARCHITECTURE AND VLSI; AI
2:00 PM-3:00 PM	SESSION 12: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
2:00 PM-3:00 PM	SESSION 13: COMPUTER GRAPHICS, SIMULATION; PARALLEL ALGORITHMS AND PATTERN RECOGNITION
2:00 PM-3:00 PM	SESSION 14: CRYPTOGRAPHY AND SECURITY
3:45 PM-5:00 PM	SESSION 15: SECURITY AND PRIVACY
3:45 PM-5:00 PM	SESSION 16: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING SESSION CHAIR: SHADI JAWHAR (INDIANA TECH & LIONFISH CYBER SECURITY, USA)

SESSION TIME: 11:45 AM – 1:00 PM (DAY 2: 9th Jan 2024)

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:45 AM – 12:00 PM	1570978673	HIV Progression and Outcome Prediction to Enhance	Rakeshkumar Mahto and Kanika Sood (California State University, Fullerton, USA)
		Patient Matching for Clinical Trials	
12:00 PM - 12:15 PM	1570976831	Using Convolutional Neural Network to Predict	Arisoa S. Randrianasolo (Abilene Christian University, USA)
		EURO Games	
	1570975267	Agent Guidance in Autonomous Mobility on	Jiyao Li and Vicki Allan (Utah State University, USA)
12:15 PM -12:30 PM	13/09/3207	Demand Systems: An Approach Utilizing Priority	Jiyao Li and vicki Anan (Otan State Oniversity, OSA)
12.13111 12.30111		Double Deep-Q-Networks	
12:30 PM – 12:45 PM			
	1570977412	Towards an Automatic Ensemble Methodology for Explainable Reinforcement Learning	Rudy Milani (Universität der Bundeswehr München, Germany)
		Explamable Reinfolcement Learning	
	1570974753	MicroElectrodes for High Density Surface	Nabeeh Kandalaft, Brendan P. Beauchamp and Karl Brakora (Grand Valley State
12:45 PM – 1:00 PM		Electromyography	University, USA)

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING SESSION CHAIR: DAMIAN VALLES (TEXAS STATE UNIVERSITY, USA)					
TIME ALLOTTED	SESSION TIME: 11:45 AM – 12:45 PM (DAY 2: 9th Jan 2024) TIME ALLOTTED PAPER ID PAPER NAME AUTHORS WITH AFFILIATION & COUNTRY				
11:45 AM – 12:00 PM	1570976501	Myoelectric Controls With Embedded Machine Learning			
12:00 PM - 12:15 PM	1570976024	ChatGPT in Education, Healthcare, and Cybersecurity: Opportunities and Challenges	Gahangir Hossain and Shafi Parvez Mohammed (University of North Texas, USA)		
12:15 PM -12:30 PM	1570978335	Machine Learning Techniques for Non- Intrusive Load Monitoring for Enhanced Energy Predictions	Tushar Chugh (Carnegie Mellon University, USA); Kanishka Tyagi (University of Texas, Arlington, USA); Rolly Seth (Microsoft, USA)		
12:30 PM – 12:45 PM	1570977558	Techniques to Detect Fake Profiles on Social Media Using the New Age Algorithms - A Survey	A K M Rubaiyat Reza Habib, Edidiong Elijah Akpan, Bhaskar Ghosh and Indira K Dutta (Arkansas Tech University, USA)		

SESSION 11: COMPUTER ARCHITECTURE AND VLSI; AI					
	SESSION CHAIR: XIAOHE WU (BETHUNE-COOKMAN UNIVERSITY, USA)				
	SESSION TIME: 11:45 AM – 1:00 PM (DAY 2: 9th Jan 2024)				
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY		
11:45 AM – 12:00 PM	1570978344	Efficient Designs for the 8-Bit Approximate Fixed Point Multiplication	Kaptan Singh and Sai Varun Puligilla (California State University - Fresno, USA); Harshitha Ramesh (California State University, Fresno, USA); Ankur Panghal (USA); Hayssam El- Razouk (California State University, Fresno, USA)		
12:00 PM - 12:15 PM	1570961994	A Soulbound Token Certificate Verification System (SBTCert): Design and Implementation	Tarun V Tumati (California State University, Northridge, USA); Yun Tian (California State University, Fullerton & College of Engineering and Computer Science, USA); Xunfei Jiang (California State University, Northridge, USA)		
12:15 PM -12:30 PM	1570978286	Recursive Implementation of Voting Networks	Behrooz Parhami (University of California, Santa Barbara, USA)		
12:30 PM – 12:45 PM	1570978294	Advancements in Secure Computing: Exploring Automated Repair Debugging and Verification Techniques for Hardware Design	Alireza Abolhasani Zeraatkar, Parnian Shabani Kamran and Hussain Al-Asaad (University of California, Davis, USA)		
12:45 PM – 1:00 PM	1570978386	State-Based Dynamic Graph With Breadth First Progression for Autonomous Robots	Tushar Chugh (Carnegie Mellon University, USA); Kanishka Tyagi (University of Texas, Arlington, USA); Pranesh Srinivasan (IIT Madras, India); Jeshwanth Challagundla (Google, USA)		

1:00 PM - 2:00 PM	LUNCH BREAK	

SESSION 12: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: WAN D BAE (SEATTLE UNIVERSITY, USA)

SESSION TIME: 2:00 PM - 3:00 PM (DAY 2: 9th Jan 2024)

DEDUCTOR THEE. 2.00 FM 5.00 FM (DAT 2.700 GM 2024)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
	1570978220	Towards Distributed Learning to Support	Mark Allison (The University of Michigan-Flint, USA); Michael Farmer (Kettering
2:00 PM - 2:15 PM		Situational Awareness for Robotic Team	University, USA)
		Augmented Humanitarian Disaster Response	
	1570977877	AutoHealth: Advanced LLM-Empowered	Luis M Cardenas, Katherine A. Parajes, Ming Zhu and Shengjie Zhai (University of
2:15 PM - 2:30 PM		Wearable Personalized Medical Butler for	Nevada Las Vegas, USA)
		Parkinson's Disease Management	
	1570978037	An Online Supervised Learning Algorithm	Liu Yang, Xianghong Lin, Yuan Zhao, Xiangwen Wang, Xianrun He and Yaohui Zou
2:30 PM - 2:45 PM		Based on Spike Train Kernel for Spiking	(Northwest Normal University, China)
		Neurons	
	1570978231	L-IDS: A Multi-Layered Approach to	Farhad Mofidi (University of Colorado & Mastercard, USA); Sena Hounsinou (Metro
2:45 PM -3:00 PM		Ransomware Detection in IoT	State University, USA); Gedare Bloom (University of Colorado Colorado Springs,
			USA)

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 13: COMPUTER GRAPHICS, SIMULATION; PARALLEL ALGORITHMS AND PATTERN RECOGNITION

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

SESSION TIME: 2:00 PM - 3:00 PM (DAY 2: 9th Jan 2024)

DEBBION TIME. 2.00 I M = 3.00 I M (DAT 2. 7th 3th 2024)				
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY	
2:00 PM - 2:15 PM	1570978261	Fire Egress Simulations Based on Human Behavioural Patterns	Andrew J. Park (Trinity Western University, Canada); Gisung Han (Korea University, Korea (South)); Ryan Ficocelli (Thompson Rivers University, Canada); Eunju Hwang (Virginia Tech, USA)	
2:15 PM -2:30 PM	1570976294	H2 EMS: A Simulation Approach of a Solar- Hydrogen Energy Management System	Salaki Reynaldo Joshua, Sanguk Park and Kihyeon Kwon (Kangwon National University, Korea (South))	
2:30 PM - 2:45 PM	1570978254	MRL-PoS: A Multi-Agent Reinforcement Learning Based Proof of Stake Consensus Algorithm for Blockchain	Tariqul Islam and Faisal Haque Bappy (Syracuse University, USA); Tarannum Shaila Zaman (SUNY Polytechnic Institute, USA); Md Sajidul Islam Sajid (Towson University, USA); Mir Mehedi Ahsan Pritom (Tennessee Tech University, USA)	
2:45 PM -3:00 PM	1570978371	Multiple Gain Adaptations for Improved Neural Networks Training	Jeshwanth Challagundla (Google, USA); Kanishka Tyagi (University of Texas, Arlington, USA); Tushar Chugh (Carnegie Mellon University, USA); Michael T. Manry (The University of Texas at Arlington, USA)	

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 14: CRYPTOGRAPHY AND SECURITY				
SESSION CHAIR: MARTIN C CARLISLE (TEXAS A&M UNIVERSITY, USA)				
	SESSION TIME: 2:00 PM – 3:00 PM (DAY 2: 9th Jan 2024)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY	
2:00 PM - 2:15 PM	1570975474	Learning Blockchain in School: A Dozen Connected Topics	Gahangir Hossain and Dedeepya Yarra (University of North Texas, USA)	
2:15 PM - 2:30 PM	1570976634	Exploring Polymorphic Algorithms and Their Use in Cryptography	Mandeep Singh (Santa Clara University, USA); Albert H Carlson (Austin Community College, USA)	
2:30 PM - 2:45 PM	1570971744	Enhancing Cyber Resilience With AI-Powered Cyber Insurance Risk Assessment	Shadi Jawhar (Indiana Tech & Lionfish Cyber Security, USA); Jeremy Miller, Zeina Bitar and Craig E. Kimble (Lionfish Cyber Security, USA)	
2:45 PM -3:00 PM	1570977657	Blockchain Technology in the Healthcare Sector: Overview and Security Analysis	Nour El Madhoun (ISEP Engineering School, France & Sorbonne Université, LIP6, France); Badis Hammi (Institut Polytechnique de Paris, Télécom SudParis, France)	

COFFEE BREAK	3:15 PM – 3:45 PM	COFFEE BREAK	
--------------	-------------------	--------------	--

SESSION 15: SECURITY AND PRIVACY

SESSION CHAIR: HAYSSAM EL-RAZOUK (CALIFORNIA STATE UNIVERSITY, FRESNO,

USA)

SESSION TIME: 3:45 PM – 5:00 PM (DAY 2: 9th Jan 2024)

SESSION TIME: 3:45 PM – 5:00 PM (DAY 2: 9th Jan 2024)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:45 PM - 4:00 PM	1570978312	Improving Network Traffic Anomaly Detection Through Data Denoising and Unsupervised Learning	James Talbott, Joshua Palicka, Alexander Sheardown and Wan D Bae (Seattle University, USA); Matthew Horak (Amazon, USA)
4:00 PM -4:15 PM	1570978134	Towards Design Synthesis From Verbal Conversations in Teams	Alex Doboli (Stony Brook University, USA)
4:15 PM -4:30 PM	1570977503	CIMALIR: Cross-Platform IoT Malware Clustering Using Intermediate Representation	Minhajul Alam Rahat, Vijay K Banerjee and Gedare Bloom (University of Colorado Colorado Springs, USA); Yanyan Zhuang (University of Colorado, Colorado Springs, USA)
4:30 PM - 4:45 PM	1570977506	Should Smart Homes Be Afraid of Evil Maids? Identifying Vulnerabilities in IoT Device Firmware	Austen Knapp, Emmanuel Wamuo and Minhajul Alam Rahat (University of Colorado Colorado Springs, USA); Santiago Torres Arias (Purdue University, USA); Gedare Bloom (University of Colorado Colorado Springs, USA); Yanyan Zhuang (University of Colorado, Colorado Springs, USA)
4:45 PM - 5:00 PM	1570968146	Security Threats on Data-Driven Approaches for Luggage Screening	University, Bangladesh); Kishor Datta Gupta (Clark Atlanta University, USA & Silicon Orchard Ltd, Bangladesh); Dipankar Dasgupta (University of Memphis, USA); Roy George and Khalil Shujaee (Clark Atlanta University, USA)
5:00 PM- 5:15 PM	1570975991	Automated Vulnerability Detection in Source Code Using Deep Representation Learning	Christoforos Seas (University of Cyprus, Cyprus); Glenn Fitzpatrick and John A. Hamilton (Texas AM University, USA); Martin C Carlisle (Texas A&M University, USA)

SESSION 16: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING					
	SESSION CHAIR: MADJID FATHI (UNIVERSITY OF SIEGEN, GERMANY)				
		ESSION TIME: 3:45 PM – 5:00 PM (D	·		
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY		
3:45 PM - 4:00 PM	1570971751	Enhancing Wearable ECG Sensors: A Secure, Accurate and Efficient System Architecture for Resource-Constrained ECG Monitoring	Adarsha Bhattarai (University of Nebraska - Lincoln, USA); Dongming Peng (University of Nebraska-Lincoln, USA); Jason Payne (University of Nebraska Medical Center, USA); Hamid Sharif (University of Nebraska-Linkoln, USA)		
4:00 PM -4:15 PM	1570978416	Reducing the Computational Cost of Urban Flood Prediction in Los Angeles	Laura Ani Bedoyan, Mansoureh Lord and Adam Kaplan (California State University Northridge, USA)		
4:15 PM -4:30 PM	1570978324	A Framework for Abstractive Summarization of Conversational Meetings	Vincent Marklynn, Anjali Sebastian, Yong Long Tan and Wan D Bae (Seattle University, USA); Shayma Alkobaisi (UAEU, United Arab Emirates); Sada Narayanappa (University of Denver, USA)		
4:30 PM - 4:45 PM	1570978275	Geomagnetic Storm Forecasting Using Machine/Deep Learning Models	Shree Ram Abayankar Balaji (University of North Dakota, USA); Prakash Ranganathan (University of North Dakota, United Kingdom (Great Britain))		
4:45 PM - 5:00 PM	1570978281	CMI: Cluster-Centric Missing Value Imputation With Feature Consistency	Mohammad Masum (San Jose State University, USA)		

All the timings are given in Pacific Standard Time (PST (UTC-08))

DAY 3: 10th Jan 2024

TIME	NAME OF THE EVENT
9:00 AM - 9:45 AM	KEYNOTE ADDRESS BY WOLFGANG BEIN (UNIVERSITY OF NEVADA, LAS VEGAS) TITLE OF TALK: ONLINE COMPETITIVE TECHNIQUES FOR THE INTEGRATION OF RENEWABLE ENERGY INTO THE SMART GRID
9:45 AM - 10:30 AM	
	KEYNOTE ADDRESS BY JENNA BUTLER (PRINCIPAL APPLIED RESEARCH SCIENTIST, MICROSOFT, USA) [VIRTUAL PRESENTATION] ZOOM LINK: https://zoom.us/j/6319961197 TITLE OF TALK: THE FUTURE OF WORK: AI, DEVELOPERS, AND LEADING LIKE A SCIENTIST

COFFEE BREAK	10:30 AM-11:00 AM

Workshop on Aspects of Virtual Reality	11:00 AM – 2:00 PM
$\mathbf{B}\mathbf{y}$	
Dr. Phillip Bradford (University of Connecticut, Stamford, USA)	

All the timings are given in Pacific Standard Time (PST (UTC-08))

DAY 3: 10th Jan 2024

TIME	PARALLEL SESSION
11:00 AM-12:15 PM	SESSION 17: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
11:00AM-11:30 AM	SESSION 18: SECURITY, TRUST AND PRIVACY
11:00AM-11:45 AM	SESSION 19: WIRELESS COMPUTING
1:30 PM-2:45 PM	SESSION 20: SYSTEMS AND SOFTWARE ENGINEERING; AI
1:30 PM-2:45 PM	SESSION 21: SIGNAL PROCESSING; QOS; SENSOR NETWORKS AND CONTROL SYSTEM
3:15 PM - 5:00 PM	SESSION 22: GRAPHICS; AI; ROBOTICS AND CONTROL SYSTEMS
3:15 PM – 5:15 PM	SESSION 23: ROBOTICS; AI; BIG DATA AND VLSI

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 17: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING			
SESSION CHAIR: BEHROOZ PARHAMI (UNIVERSITY OF CALIFORNIA, SANTA BARBARA, USA)			
	\mathbf{S}	ESSION TIME: 11:00 AM – 12:15 PM	(DAY 3: 10th Jan 2024)
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM - 11:15 AM	1570976260	Trusting Classifiers With Interpretable Machine	
		Learning Based Feature Selection	University Bangladesh, Bangladesh); Frederick T Sheldon (University of Idaho,
		Backpropagation	USA); Sajjan Shiva (University of Memphis, USA)
	1570976919	State of the Art: Security Testing of Machine	Raktim Ranjan Das (Stamford University Bangladesh, Bangladesh); Bhargavi
11:15 AM -11:30 AM		Learning Development Systems	Krishnamurthy (Siddaganga Institute of Technology, India); Saikat Das (Utah
			Valley University, USA); Sajjan Shiva (University of Memphis, USA)
	1570976430	Using Natural Language Processing Tools to	Ryan Gabrys (Naval Information Warfare Center Pacific, USA); Mark Bilinski
11:30 AM -11:45 AM		Infer Adversary Techniques and Tactics Under	(NIWC Pacific, USA); Sunny Fugate (Naval Information Warfare Center Pacific,
		the Mitre ATT&CK Framework	USA); Danny Silva (Naval Information Warfare Center, USA)
11:45 AM – 12:00 PM	1570979141	Can AI Keep You Safe? A Study of Large	Robin Chataut, Yusuf Usman (Quinnipiac University, USA); Prashnna K Gyawali
		Language Models for Phishing Detection	(West Virginia University, USA)
			, , ,
1			

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 18: SECURITY, TRUST AND PRIVACY SESSION CHAIR: MARTIN C CARLISLE (TEXAS A&M UNIVERSITY, USA)					
	SESSION TIME: 11:00 AM – 11:30 AM (DAY 3: 10th Jan 2024)				
TIME ALLOTTED	TIME ALLOTTED PAPER ID PAPER NAME AUTHORS WITH AFFILIATION & COUNTRY				
11:00 AM – 11:15 AM	1570977251	Smart Car Temperature Monitoring System Using SRAM-Based PUF Sensor	Trevor Ridley, Julius Andrade, Cristian Luna, Hayssam El-Razouk (California State University, Fresno, USA)		
11:15 AM -11:30 AM	1570972929	ACPPS: Autonomic Computing Based Phishing Protection System	Jordan Mazur (Johns Hopkins University Whiting School of Engineering, USA); Christopher Rouff (Johns Hopkins Applied Physics Laboratory, USA); Ali Tekeoglu (Johns Hopkins University Whiting School of Engineering, USA & Leidos Innovations Center, USA)		

	SESSION 19: WIRELESS COMPUTING			
	SESSION CHAIR:			
	SE	SSION TIME: 11:00 AM – 11:45 AN	M (DAY 3: 10th Jan 2024)	
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY	
11:00 AM – 11:15 AM	1570977554	A Dyad-Based Mobile System to Support Older Adults and Informal Caregivers	Tarek El Salti, Ed Sykes, Jordan Scrivo, Brandon Plaza and Vladislav Mun (Sheridan College, Canada)	
11:15 AM -11:30 AM	1570978213	Rotational Flying Station for Wireless Access in Large Disaster Area	Hasan Md Imran (Clark Atlanta University, USA); Xingya Liu (Lamar University, USA)	
11:30 AM -11:45 AM	1570979396	Defending Against Wormhole Attacks in Wireless Networks Using the Twofish Algorithm: A Performance Analysis	Mrinal Sarkar (University of Engineering and Management Jaipur, India)	

12:30 PM – 1:30 PM	LUNCH BREAK

SESSION 20: SYSTEMS AND SOFTWARE ENGINEERING; AI

SESSION CHAIR: JEREMY MILLER (LIONFISH CYBER SECURITY, USA)

SESSION TIME: 1:30 PM – 2:45 PM (DAY 3: 10th Jan 2024)

SESSION THVIE: 1:50 PW - 2:45 PW (DA 1 5: 10th Jan 2024)			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:30 PM - 1:45 PM	1570968396	An Innovative Method for Securing QR Codes	
		Against Counterfeits in Supply Chain Management	Lincoln, USA); Dongming Peng (University of Nebraska-Lincoln, USA)
1:45 PM - 2:00 PM	1570978635		Hasan Md Imran, Tareque Abu Abdullah, Suriya Islam Chowdhury and Mohd Ariful Haque
		Broadband Reflector Design	(Clark Atlanta University, USA)
	1570976261	Exploring the Impact of Cloud Computing	Andrew Baynum and Wei Hao (Northern Kentucky University, USA)
2:00 PM – 2:15 PM		and Edge Computing on Resource	
		Consumption for Mobile Devices With	
		Generative Artificial Intelligence APIs	
	1570977860	A Software Framework for Monitoring Harmful	
2:15 PM - 2:30 PM		Algal Blooms (HABs)	Ranganathan (University of North Dakota, United Kingdom (Great Britain))
2:30 PM-2:45 PM	1570977866	Introduction to Inline-Services: A Seamless	Friban Almeida (USA)
		Approach to Microservices Development	

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 21: SIGNAL PROCESSING; QOS; SENSOR NETWORKS AND CONTROL SYSTEM					
	SESSION CHAIR: ROBIN CHATAUT (QUINNIPIAC UNIVERSITY, USA)				
SESSION TIME: 1:30 PM – 2:45 PM (DAY 3: 10th Jan 2024)					
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY		
1:30 PM – 1:45 PM	1570978265	Spatial Variability Learning of Biomechanical Dynamics in Daily Lives	Ming Liu (Purdue School of Engineering and Technology, USA); Qingxue Zhang (Purdue University Indianapolis, USA)		
1:45 PM – 2:00 PM	1570977856	Empirical Characterization of Ookla's Speed Test Platform: Analyzing Server Deployment, Policy Impact, and User Coverage	Zesen Zhang (University of California San Diego, USA); Jiting Shen (University of California San Deigo, USA); Ka Pui Mok (University of California, San Diego & CAIDA, USA)		
2:00 PM – 2:15 PM	1570978011	Characteristic Analysis of Upper Bound Call Blocking Probability of Emergency CAC for Three Types of Calls	Sota Narikiyo and Sumiko Miyata (Shibaura Institute of Technology, Japan); Ken-ichi Baba (Kogakuin University, Japan); Katsunori Yamaoka (Tokyo Institute of Technology, Japan)		
2:15 PM – 2:30 PM	1570977662	Optimizing Post Deployment Maintenance at Nodal Level for Macroscale Wireless Sensor Network	Srihari Koripalli and Drake Sheela (California State University - Fresno, USA); Nan Wang (California State University at Fresno, USA)		

2:45 PM – 3:1	PM	COFFEE BREAK

PARALLEL SESSIONS [VIRTUAL SESSIONS]

SESSION 22: GRAPHICS; AI; ROBOTICS AND CONTROL SYSTEMS

SESSION CHAIR: JOHANNES ZENKERT (UNIVERSITY OF SIEGEN, GERMANY)

SESSION TIME: 3:15 PM – 5:00 PM (DAY 3: 10th Jan 2024)

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

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY	
3:15 PM - 3:30 PM	1570975252	Use of Bim Technology for Augmented Reality in Buildings	Aracely Marilu Pacheco Mercado, JR, Cynthia Janeth Cerron Mercado, Fernando Reymundo Tapara Giron and Augusto Alberto Herrera Parraguez (Universidad Continental, Peru)	
3:30 PM - 3:45 PM	1570975311	Efficient Fourth-Order Buck Converter Design for Hybrid Electric Vehicle Power Systems With State Space Average Modeling and Control	Jaldu Asish, Megha T S and Laqueta N (Pes University, India); Rashmi Seethur (PES university, India)	
3:45 PM - 4:00 PM	1570976703	CNN-Based Autoencoder and Post-Training Quantization for On-Device Anomaly Detection of Cartesian Coordinate Robots	Hyuntae Cho (Tongmyong University, Korea (South))	
4:00 PM -4:15 PM	1570977742	Rigid Pavement: Compressive Strength, State of Preservation and Sampling Automation	Albert J Valenzuela Inga, Abel Max Julcarima Espiritu, Benjamin De La Cruz Taipe, Romel Moisés Olivera Pérez, Deyvid F Matamoros-Paitán, Juan Gabriel Benito Zuñiga and Heydi K Hinostroza Maravi (Universidad Continental, Peru)	
4:15 PM- 4:30 PM	1570978247	Predicting Travel Time in Complex Road Structures Using Deep Learning	Vignaan Vardhan Nampalli and Charan Gudla (Mississippi State University, USA); Md Shohel Rana (Florida Gulf Coast University, USA)	
4:15 PM- 4:45 PM	1570978300	Enhancing Security and Privacy in Cyber- Physical Systems: Challenges and Solutions	Manvendra Sharma (Amazon, USA)	
4:45 PM- 5:00 PM	1570974617	Enhancing Cloud-Based Application Component Placement With AI-Driven Operations	Efterpi Paraskevoulakou, Jean-Didier Totow Tom-Ata, Chrysostomos Symvoulidis and Dimosthenis Kyriazis (University of Piraeus, Greece)	

All the timings are given in Pacific Standard Time (PST (UTC-08))

SESSION 23: ROBOTICS; AI; BIG DATA AND VLSI SESSION CHAIR: GAHANGIR HOSSAIN (UNIVERSITY OF NORTH TEXAS, USA)

SESSION TIME: 3:15 PM – 5:15 PM (DAY 3: 10th Jan 2024)

PARTICIPATION LINK: https://zoom.us/j/6626883577

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:15 PM - 3:30 PM	1570977761	SIS-IDAI System in the Performance of Vehicle Counting in Different Road Scenarios in the City of Huancayo	Albert J Valenzuela Inga, Luis Fernando Alania-Borja and Rosali Ramos-Rojas (Universidad Continental, Peru)
3:30 PM - 3:45 PM	1570978168	Data-Driven Approach to Identify Connectivity and Bus Stop Importance in Transit Network	Nahom H. Demoz (University of New Haven & ECECS, USA); Shivanjali Khare (University of New Haven, USA); Medha Kanu Baniya (University of New Haven, India)
3:45 PM - 4:00 PM	1570978207	Learning Cost-Adjusted Predictive Models With Margin-Based Framework	Moshe Battula (DBCREST, USA); Naved Anwar (Engineers India Ltd, India); Jaismeen Kaur (DAV Universisty, India); Saumya Pailwan (NMIMS, India)
4:00 PM -4:15 PM	1570978222	RTL to GDS Implementation and Verification of UART Using UVM and OpenROAD	Purav Bhatt (San Jose State University, USA); Dharmik Joshi (AMD, USA); Shrikant S Jadhav (San Jose State University, USA)
4:15 PM- 4:30 PM	1570978327	Deepfakes – Reality Under Threat?	Md Shohel Rana (Florida Gulf Coast University, USA); Charan Gudla (Mississippi State University, USA); Md Solaiman and Md Fahimuzzman Sohan (Daffodil International University, Bangladesh)
4:15 PM- 4:45 PM	1570974768	A Novel 10T SRAM Bit-Cell with High Static Noise Margin and Low Power Consumption for Binary In-Memory Computing	Hossein Khosravi (CoreHW, Finland); Ricardo Carmona Galán (Consejo Superior de Investigaciones Científicas & CSIC, Spain); Jorge Fernandez-Berni (Institute of Microelectronics of Seville, Spain); Nabeeh Kandalaft (Grand Valley State University, USA)
4:45 PM- 5:00 PM	1570978258	Analysis of Serious Games for Nutrition Using NLP Techniques	Victor Okpanachi and Ifeoma Adaji (The University of British Columbia, Canada)
5:00 PM - 5:15 PM	1570976979	Utilizing ChatGPT to Improve Quantum Algorithms	Chuck Easttom (Georgetown University, USA)

VALEDICTORY SESSION

5:30 PM-6:15 PM

All the timings are given in Pacific Standard Time (PST (UTC-08))