



IEEE UEMCON 2020

**The 11th IEEE annual Ubiquitous Computing, Electronics and Mobile Communication Conference
VIRTUAL CONFERENCE
28th – 31st October 2020**

All the timings are given in Eastern Daylight time (EDT (GMT-4))

TECHNICAL SCHEDULE

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DAY 1: 28th October, 2020

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.15 A.M – 9:00 A.M	INAUGURATION	IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY
9:00 A.M – 9:45 A.M	KEYNOTE ADDRESS BY PAUL TEPPER (EXECUTIVE DIRECTOR, NLP (MORGAN STANLEY,USA)) TITLE OF TALK: CONVERSATIONAL AI AND CONTACT CENTER AUTOMATION	
9:45 A.M – 10:30 A.M	KEYNOTE ADDRESS BY HENNING SCHULZRINNE (PROFESSOR, COLUMBIA UNIVERSITY,USA) TITLE OF TALK: WHY DON'T WE ALL HAVE BROADBAND ALREADY?	

10.30 A.M -10.45 A.M	BREAK
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PARALLEL SESSIONS

SESSION 1: AD HOC NETWORKS

SESSION CHAIR: MD SHOHRAB HOSSAIN (BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, BANGLADESH)

SESSION TIME: 10.45 A.M -12.00 P.M WEDNESDAY, 28TH OCTOBER 2020

PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.45 A.M – 11.00 A.M	1570681392	CrowdPick: A Generic Framework for Delivering Service Specific Crowd Infrastructure	Shahid Noor (Northern Kentucky University, USA); Md Yasser Karim, Mahmud Hossain and Ragib Hasan (University of Alabama at Birmingham, USA)
11.00 A.M -11.15 A.M	1570673590	LTEOC: Long Term Energy Optimization Clustering for Dynamic IoT Networks	Mohamed Sofiane Batta (University of Ferhat Abbas Setif 1, Algeria); Zibouda Aliouat (University Ferhat Abbas Setif 1 El bez, Algeria); Hakim Mabed (UFC/FEMTO-ST Institute, France); Saad Harous (UAE University, United Arab Emirates)
11.15 A.M -11.30 A.M	1570678118	Development and Implementation of S-MAC Based RPL Protocol to Increase Energy Efficiency for the TelosB	Russell Skaggs-Schellenberg and Daniel Wright (California State University, Fresno, USA); Nan Wang (California State University at Fresno, USA)
11.30 A.M -11.45 A.M	1570675495	Cybersecurity Analysis in Dedicated Short-Range Communications in Vehicular Networks	Michael Stepzinski (University of Nevada Reno, USA); Shamik Sengupta (University of Nevada, Reno, USA)
11.45 A.M -12.00 P.M	1570681539	Multimedia Transmission for V2X Communication Over Legacy LTE-A Network Infrastructure - A Performance Evaluation	Subhrajit Majumder (University of Toledo, USA); Deepthi Chandrika Mandava (The University of Toledo, USA); Jung Kim and Ahmad Y Javaid (University of Toledo, USA)

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SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: MUHAMMAD SANA ULLAH (FLORIDA POLYTECHNIC UNIVERSITY, USA)****SESSION TIME: 10.45 A.M -12.00 P.M WEDNESDAY,28TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.45 A.M – 11.00 A.M	1570677781	8-Bit Convolutional Neural Network Accelerator for Face Recognition	Wei Pang, Yufeng Li and Shengli Lu (Southeast University, China)
11.00 A.M -11.15 A.M	1570681196	Deep Attractor with Convolutional Network for Monaural Speech Separation	Tian Lan, Yuxin Qian and Wenxin Tai (University of Electronic Science and Technology of China, China); Boce Chu (CETC Key Laboratory of Aerospace Information Applications, China); Qiao Liu (University of Electronic Science and Technology of China, China)
11.15 A.M -11.30 A.M	1570681664	Anomaly Detection and Identification Using Visual Techniques in Streaming Video	Thilan Anjana Wanigaaratchi (Wayamba University of Sri Lanka & Just In Time Group, Sri Lanka); Tharinda Nishantha Vidanagama (Wayamba University of Sri Lanka, Sri Lanka)
11.30 A.M -11.45 A.M	1570675544	A Bfloat16 Fused Multiplier-Adder	Stafford Hutchins (The University of Texas at Austin, USA); Earl Swartzlander (University of Texas at Austin, USA)
11.45 A.M -12.00 P.M	1570678388	Continuous Authentication of Smartphone Users Using Machine Learning	Suhana Ambol and Sherif S. Rashad (Morehead State University, USA)

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SESSION 3: BIG DATA, DATA MANAGEMENT AND ANALYTICS**SESSION CHAIR: TUTOMU MURASE (NAGOYA UNIVERSITY, JAPAN)****SESSION TIME: 10.45 A.M -12.00 P.M WEDNESDAY,28TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.45 A.M – 11.00 A.M	1570675356	Interactive Visualization of 3D Terrain Data Stored in the Cloud	Gregory Larrick, Yun Tian, Uri Rogers and Halim Acosta (Eastern Washington University, USA); Fangyang Shen (New York City College of Technology, USA)
11.00 A.M -11.15 A.M	1570681160	A Data Structure for Efficient File Deduplication in Cloud Storage	Bohui Wang (Peking University, China); Hui Li (Peking University Shenzhen Graduate School, China); Yan Zhao (Shenzhen SmartCity Technology Development Group Co., Ltd, China); Xin Yang, Huajun Ma, Xin Xie and Kaixuan Xing (Peking University, China)
11.15 A.M -11.30 A.M	1570680670	Stock Price Prediction Using Bi-Directional LSTM Based Sequence to Sequence Modeling and Multitask Learning	Siddartha Mootha (College of Engineering, Guindy, India); Sashank Sridhar, Rahul Seetharaman and S. Chitrakala (Anna University, India)
11.30 A.M -11.45 A.M	1570681010	Central Versus Distributed Statistical Computing Algorithms- A Comparison	Nisha Thorakkattu Madathil and Saad Harous (UAE University, United Arab Emirates)
11.45 A.M -12.00 P.M	1570675474	Energy Disaggregation Using Multilabel Binarization and Gaussian Naive Bayes Classifier	Patrick Adjei, Nittin Sethi and Camila de Souza (Western University, Canada); Miriam A M Capretz (University of Western Ontario, Canada)

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SESSION 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: EMAN ABDELFATTAH (RAMAPO COLLEGE OF NEW JERSEY, USA)****SESSION TIME: 10.45 A.M -12.00 P.M WEDNESDAY,28TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.45 A.M – 11.00 A.M	1570681529	Design of Machine Learning Algorithms for Behavioral Prediction of Objects for Self-Driving Cars	Yevgeniy Byeloborodov and Sherif S. Rashad (Morehead State University, USA)
11.00 A.M -11.15 A.M	1570673392	Performance Analysis and Evaluation of LSTM and GRU Architectures for Houston Toad and Crawfish Frog Call Detection	Shafinaz Islam, Damian Valles and Michael Forstner (Texas State University, USA)
11.15 A.M -11.30 A.M	1570675572	Backbone Neural Network Design of Single Shot Detector from RGB-D Images for Object Detection	Purvesh Sharma and Damian Valles (Texas State University, USA)
11.30 A.M -11.45 A.M	1570682067	Automatic Numerical Question Answering on Table Using BERT-GNN	Ruchi Ramesh Bagwe (California state University Fullerton, USA); Kiran George (California State University, Fullerton, USA)
11.45 A.M -12.00 P.M	1570682149	Deep Learning Enhanced BCI Technology for 3D Printing	Jahnvi Kachhia (California state University Fullerton, USA); Rashika Natharani and Kiran George (California State University, Fullerton, USA)

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PARALLEL SESSIONS

SESSION 5: AD HOC NETWORKS AND BIG DATA MANAGEMENT

SESSION CHAIR: CHRISTINE F REILLY (SKIDMORE COLLEGE, USA)

SESSION TIME: 12.15 P.M -1.30 P.M WEDNESDAY,28TH OCTOBER 2020

PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.15 P.M – 12.30 P.M	1570680869	OPSCAN: Density-Based Spatial Clustering in Opportunistic Networks	Ahmed E. Elshafey and Soumaia A. Al Ayyat (The American University in Cairo, Egypt); Sherif Aly (American University in cairo, Egypt)
12.30 P.M -12.45 P.M	1570681534	Modified PHY Layer for High Performance V2X Communication Using 5G NR	Utpal Kumar Dey and Robert Akl (University of North Texas, USA); Robin Chataut (Fitchburg State University, USA); Mohammadreza Robaei (University of North Texas, USA)
12.45 P.M-1.00 P.M	1570682110	IoT Based: Air Quality Index and Traffic Volume Correlation	Omar Alruwaili, Ivica N. Kostanic and Ali Alsabbagh (Florida Institute of Technology, USA); Hamad Almohamedh (King Abdulaziz City For Science and Technology, Saudi Arabia)
1.00 P.M-1.15 P.M	1570675862	A Novel Framework for Data Center Risk Assessment	Moises Levy (West Texas A&M University, USA)
1.15 P.M -1.30 P.M	1570675375	PAARS: Privacy Aware Access Regulation System	Md Monowar Anjum and Noman Mohammed (University of Manitoba, Canada)

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SESSION 6: CLOUD AND VIRTUAL NETWORKS**SESSION CHAIR: SUDARSHAN S CHAWATHE (UNIVERSITY OF MAINE, USA)****SESSION TIME: 12.15 P.M-1.30 P.M WEDNESDAY, 28TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.15 P.M–12.30 P.M	1570670909	LSTM for Cloud Data Centers Resource Allocation in Software-Defined Optical Networks	Michal Aibin (British Columbia Institute of Technology, Canada & Northeastern University, USA)
12.30 P.M–12.45 P.M	1570679155	A New Caching Algorithm for Boosting Edge Computing Performance	Ziyin Zhang and Wei Hao (Northern Kentucky University, USA)
12.45 P.M-1.00 P.M	1570681120	A High Security Signature Algorithm Based on Kerberos for REST-Style Cloud Storage Service	YuanYuan Yang (Peking University ShenZhen Graduate School, China); Hui Li (Peking University Shenzhen Graduate School, China); Xiangdong Cheng (Shenzhen SmartCity Technology Development Group Co., China); Xin Yang (Peking University, China); Yaoguang Huo (Shenzhen Graduate School, Peking University, China)
1.00 P.M-1.15 P.M	1570681484	Performance Analysis of Cloud Radio Access Networks with Nakagami-m Fading Channel	Ayad N. Bihnam and Xian Liu (University of Arkansas at Little Rock, USA)
1.15 P.M -1.30 P.M	1570681524	Remote Monitoring of Evapotranspiration from Green Roof Systems	Jeremy D Lytle, Devon Santillo, Kristiina Valter Mai and Jeremy Wright (Ryerson University, Canada)

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SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: HAMZA TURABIEH (TAIF UNIVERSITY, SAUDI ARABIA)****SESSION TIME: 12.15 P.M -1.30 P.M WEDNESDAY, 28TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.15 P.M-12.30 P.M	1570674935	Comparison of Machine Learning Models for Parkinson's Disease Prediction	Tapan Kumar (GGSIPU & University School of ICT, India); Nupur Prakash (GGS Indraprastha University Delhi, India); Pradyumn Sharma (IIT Jammu, India)
12.30 P.M-12.45 P.M	1570674744	A Noncoherent Incremental Learning Demodulator	Paul E Gorday, Nurgun Erdol and Hanqi Zhuang (Florida Atlantic University, USA)
12.45 P.M-1.00 P.M	1570680059	Mitigating Jamming Attacks in Uncoordinated Frequency Hopping Using Multi-Armed Bandit	Olusola Tolulope Odeyomi (Wichita State University, USA & Obafemi Awolowo University, Nigeria)
1.00 P.M-1.15 P.M	1570669219	Phychoacoustic Masking of Delta and Time - Difference Cepstrum Features for Deception Detection	Sinead V Fernandes (Florida Polytechnic University, USA); Muhammad Sana Ullah (Florida Polytechnic University & University of Missouri-Kansas City, USA)
1.15 P.M -1.30 P.M	1570670908	Optimization of Regenerator Placement in Optical Networks Using Deep Tensor Neural Network	Michal Aibin (British Columbia Institute of Technology, Canada & Northeastern University, USA); Stephen Cheng, David Xiao and Aldrich Huang (British Columbia Institute of Technology, Canada)

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SESSION 8: BIG DATA, DATA ANALYTICS AND CLOUD NETWORK**SESSION CHAIR: CAMILA DE SOUZA (WESTERN UNIVERSITY, CANADA)****SESSION TIME: 12.15 P.M -1.30 P.M WEDNESDAY,28TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.15 P.M-12.30 P.M	1570681537	Performance Evaluation of TPC-C Benchmark on Various Cloud Providers	Raghu Avula and Cliff Zou (University of Central Florida, USA)
12.30 P.M-12.45 P.M	1570680427	A Feasible Chinese Text Data Preprocessing Strategy	Jingang Liu, Chunhe Xia, Haihua Yan and Jie Sun (Beihang University, China)
12.45 P.M-1.00 P.M	1570679165	Computation of Posterior Cramer-Rao Bounds for Deep Learning Networks	Jean E Piou (MIT, USA)
1.00 P.M-1.15 P.M	1570678401	Predicting COVID-19 Infection Groups Using Social Networks and Machine Learning Algorithms	Kyle Spurlock and Heba Elgazzar (Morehead State University, USA)
1.15 P.M -1.30 P.M	1570677377	Streamling Smart Cities to Create Safer Spaces	Gregg Vesonder, Randy Krauss, Matthew Vaysfeld and Murad Arslaner (Stevens Institute of Technology, USA)

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DAY 2:**29TH OCTOBER, 2020**

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.45 A.M – 9:30 A.M	KEYNOTE ADDRESS BY KRISTOFER PISTER (PROFESSOR, UC BERKELEY, USA) TITLE OF TALK: THE SINGLE-CHIP MICRO-MOTE: CRYSTAL-FREE STANDARDS-COMPATIBLE MESH NETWORKS	IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY
9:30 A.M – 10.15 A.M	KEYNOTE ADDRESS BY PETER BOROVIKH (CO-FOUNDER , RONINAI,USA) TITLE OF TALK: RASPBERRY PI REVOLUTIONIZING IOT. HOW A RASPBERRY PI CAN COMBINE ARTIFICIAL INTELLIGENCE, BLOCKCHAIN, AND DIGITAL ASSETS	
10.15 A.M – 11.00 A.M	KEYNOTE ADDRESS BY TRACY ANNE HAMMOND (PROFESSOR, TEXAS A & M UNIVERSITY,USA) TITLE OF TALK: LEVERAGING SKETCH, EYE, AND ACTIVITY RECOGNITION TO UNDERSTAND AND INTERPRET MESSY HUMAN DATA	

11.00 A.M -11.15 A.M	BREAK
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PARALLEL SESSIONS

SESSION 9: BIG DATA AND BODY , PERSONAL AREA NETWORKS

SESSION CHAIR:HOSAM ALAMLEH (UNIVERSITY OF NORTH CAROLINA WILMINGTON, USA)

SESSION TIME: 11.15 A.M – 12.30 P.M THURSDAY,29TH OCTOBER 2020

PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570672646	Analyzing Gun Violence in the United States	Eman Abdelfattah and Justina Celentano (Ramapo College of New Jersey, USA)
11.30 A.M – 11.45 A.M	1570679179	Secure Digital Service as a Utility and the Unit of Measure	Salam Ismaeel (Ryerson University, Canada); Mirza Kamaludeen (ig2 Group, Canada); Ali Miri (Ryerson University, Canada)
11.45 A.M – 12.00 P.M	1570682166	Detection of Fraudulence in Credit Card Transactions Using Machine Learning on Azure ML	Abhishek Shivanna, Sujan Ray, Khaldoon Al-shouiliy and Dharma P Agrawal (University of Cincinnati, USA)
12.00 P.M – 12.15 P.M	1570674346	Knee Injury Diagnostic Device	Julie McKenna, Tyler Hopkins, Lucas Lavallee and Douglas E Dow (Wentworth Institute of Technology, USA)
12.15 P.M – 12.30 P.M	1570680289	Intelligent Mobile Electrocardiogram Monitor-Empowered Personalized Cardiac Big Data	Qingxue Zhang (Indiana University, USA)

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SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: MD L ALI (RIDER UNIVERSITY, USA)****SESSION TIME: 11.15 A.M – 12.30 P.M THURSDAY, 29TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570675510	Towards Adversarially Robust DDoS-Attack Classification	Michael Guarino (Marist College, USA); Pablo Rivas (Baylor University, USA); Casimer DeCusatis (Marist College, USA)
11.30 A.M – 11.45 A.M	1570673652	Using Deep Learning to Identify Security Risks of Personal Mobile Devices in Enterprise Networks	Lanier Watkins, Yue Yu and Sifan Li (Johns Hopkins University Information Security Institute, USA); William H. Robinson (Vanderbilt University, USA); Aviel Rubin (Johns Hopkins University, USA)
11.45 A.M – 12.00 P.M	1570675190	Automated Prediction of Heart Disease Using Optimized Random Forest	Lama A. Alqahtani, Hanadi M. Alotaibi and Nida Aslam (Imam Abdulrahman Bin Faisal University, Saudi Arabia); Irfan Ullah Khan (Imam Abdulrahman bin Faisal University, Saudi Arabia)
12.00 P.M – 12.15 P.M	1570677681	A Black Box Approach to Inferring, Characterizing, and Breaking Native Device Tracking Autonomy	Lanier Watkins (Johns Hopkins University Information Security Institute, USA); Kevin D. Fairbanks (JHUAPL, USA); Chengyu Li and Mengdi Yang (Johns Hopkins University, USA); William H. Robinson (Vanderbilt University, USA); Aviel Rubin (Johns Hopkins University, USA)
12.15 P.M – 12.30 P.M	1570680425	Adversarial Input Detection Using Image Processing Techniques (IPT)	Kishor Datta Gupta and Dipankar Dasgupta (University of Memphis, USA); Zahid Akhtar (State University of New York Polytechnic Institute, USA)

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SESSION 11: CLOUD COMPUTING & IOT**SESSION CHAIR: TRACY ANNE HAMMOND (TEXAS A & M UNIVERSITY, USA)****SESSION TIME: 11.15 A.M – 12.30 P.M THURSDAY, 29TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570679593	IoT Bonet and Network Intrusion Detection Using Dimensionality Reduction and Supervised Machine Learning	Madhuri Desai, Yong Shi and Kun Suo (Kennesaw State University, USA)
11.30 A.M – 11.45 A.M	1570681451	Blockchain-Based Scheme for Authentication and Capability-Based Access Control in IoT Environment	Sivaselvan N (City University London, United Kingdom (Great Britain) & City University of London, United Kingdom (Great Britain)); Vivekananda Bhat, K (Manipal Institute of Technology & Manipal Academy of Higher Education, India); Muttukrishnan Rajarajan (City University London, United Kingdom (Great Britain))
11.45 A.M – 12.00 P.M	1570672160	Scheduling in IEEE 802.15.4e Time Slotted Channel Hopping: A Survey	Sarra Hammoudi (Ferhat Abbas University, Algeria); Abdelhak Bentaleb (National University of Singapore, Singapore); Saad Harous (UAE University, United Arab Emirates); Zibouda Aliouat (University Ferhat Abbas Setif 1 El bez, Algeria)
12.00 P.M – 12.15 P.M	1570681542	Extending Conductive Thread Use to Unintended Microcontrollers	Jaimie Kelley and Caileigh Marshall (Denison University, USA)
12.15 P.M – 12.30 P.M	1570673371	Agile Edge Classification of Ocean Sounds	Stelios Neophytou, Pavlos Tsiantis, Ilias Alexopoulos and Ioannis Kyriakides (University of Nicosia Research Foundation, Cyprus); Camille de Veyrac (ENSTA Paris, France); Ehson Abdi (Cyprus Subsea Consulting and Services LTD, Cyprus); Daniel Hayes (University of Cyprus, Cyprus)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 12: BIG DATA, DATA MANAGEMENT AND ANALYTICS**SESSION CHAIR: KRISTIINA VALTER MAI (RYERSON UNIVERSITY, CANADA)****SESSION TIME: 11.15 A.M – 12.15 P.M THURSDAY, 29TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570681396	A Provenance Meta Learning Framework for Missing Data Handling Methods Selection	Qian Liu (TU Berlin & ODS, Germany); Manfred Hauswirth (TU Berlin, Fraunhofer FOKUS, Germany)
11.30 A.M – 11.45 A.M	1570681397	An Event Detection Platform to Detect Gender Using Deep Learning	Abdulrahman Aldhaheri and Jeongkyu Lee (University of Bridgeport, USA); Khaled Almgren (Saudi Information Technology Company, Saudi Arabia)
11.45 A.M – 12.00 P.M	1570681497	Analyzing Auction Data for Anomalous Bidding	Sudarshan S Chawathe (University of Maine, USA)
12.00 P.M – 12.15 P.M	1570681503	Moving Recursion Out of the RDBMS for Transactional Graph Workloads	Christine F Reilly and Matt Clark (Skidmore College, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

PARALLEL SESSIONS

SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: MUHAMMAD SANA ULLAH (FLORIDA POLYTECHNIC UNIVERSITY, USA)

SESSION TIME: 12.45 P.M – 2.00 P.M THURSDAY, 29TH OCTOBER 2020

PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570673988	MINI-SSD: A Fast Object Detection Framework in Autonomous Driving	Khaled Salah Mohamed (Mentor, A Siemens Business, USA); Shaimaa Ezz-EIDin, Omar Nabil, Hussam Murad, Farah Adel and Ahmed AbdEl-Jalil (Ain Shams University, Egypt); Ayub Khan (Siemens Business, Fremont, India)
1.00 P.M–1.15 P.M	1570678652	Adaptive Sliding Mode Control Based on SVR	Kemal Uçak (MIT, USA); Gulay Oke (İstanbul Technical University, Turkey)
1.15 P.M–1.30 P.M	1570674693	Exploring a Plugin-Based System for Crowd and Pathogen Simulation in Unity	Gregg Vesonder, Jordan Fernandes, Jack Li, Keye Li and Joseph Mirabile (Stevens Institute of Technology, USA)
1.30 P.M–1.45 P.M	1570673121	Interpretable Saab Subspace Network for COVID-19 Lung Ultrasound Screening	Janpu Hou (Applied Data Research, USA)
1.45 P.M – 2.00 P.M	1570680892	Generative Adversarial Networks in Security: A Survey	Indira Dutta and Bhaskar Ghosh (University of Louisiana at Lafayette, USA); Albert Carlson (Camqed Labs, USA); Michael W Totaro (University of Louisiana at Lafayette & Ray P. Authement College of Sciences, USA); Magdy Bayoumi (University of Louisiana at Lafayette, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 14: CLOUD COMPUTING & IOT			
SESSION CHAIR: DOUGLAS E DOW (WENTWORTH INSTITUTE OF TECHNOLOGY, USA)			
SESSION TIME: 12.45 P.M – 2.00 P.M THURSDAY, 29TH OCTOBER 2020			
PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570675491	A Survey on Classification of Cyber-Attacks on IoT and IIoT Devices	Yash K Shah and Shamik Sengupta (University of Nevada, Reno, USA)
1.00 P.M–1.15 P.M	1570681493	Estimating Predicate Selectivities in a NoSQL Database Service	Sudarshan S Chawathe (University of Maine, USA)
1.15 P.M–1.30 P.M	1570681085	Smart Cities Digital Transformation and 5G - ICT Architecture	Mohamed Tealab (Al Azhar University, Egypt); Ahmed Hassebo (Purdue University Northwest, USA); Ahmed Dabour and Mohamed AbdelAziz (Al Azhar University, Egypt)
1.30 P.M–1.45 P.M	1570681453	VSDM: A Virtual Service Device Management Scheme for UPnP-Based IoT Networks	Golam Kayas (Temple University, USA); Mahmud Hossain (University of Alabama at Birmingham, USA); Jamie Payton (Temple University, USA); S. M. Riazul Islam (Sejong University, Korea (South))
1.45 P.M – 2.00 P.M	1570680832	A Bayesian Game Framework for a Semi-Supervised Allocation of the Spreading Factors in LoRa Networks	Alice Tolio and Davide Boem (University of Padova, Italy); Thomas Marchioro (FORTH, Greece); Leonardo Badia (Università degli Studi di Padova, Italy)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 15: CONTROL THEORY AND APPLICATIONS**SESSION CHAIR: ALI ABDULLAH S. ALQAHTANI (UNIVERSITY OF WISCONSIN-GREEN BAY, USA)****SESSION TIME: 12.45 P.M – 2.00 P.M THURSDAY, 29TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570680323	Ringling Test for Third-Order Ladder Low-Pass Filters	Tri Minh Tran (Gunma University & Informatics Engineering, Japan)
1.00 P.M–1.15 P.M	1570681551	Sub-Erroneous Outlier Detection of Cyber Attacks in a Smart Grid State Estimation System	Stephen M Hopkins (University of West Florida); Ezhil Kalaimannan and Caroline John (University of West Florida, USA)
1.15 P.M–1.30 P.M	1570677480	Feedback Path Delay Effect on Stability of Controlled PMSMs	Rhishav Mahaju (Saginaw Valley State University & Halla Mechatronics, USA); Amina Shrestha and Sandun Kuruppu (Saginaw Valley State University, USA)
1.30 P.M–1.45 P.M	1570675933	An Autonomous Delivery Robot to Prevent the Spread of Coronavirus in Product Delivery System	Murad Mehrab Abrar, Raian Islam and Md Abid Hasan Shanto (Ahsanullah University of Science and Technology, Bangladesh)
1.45 P.M – 2.00 P.M	1570680336	Iterative MPC for Energy Management and Load Balancing in 5G Heterogeneous Networks	Antonio Ornatelli, Andrea Tortorelli and Alessandro Giuseppi (University of Rome Sapienza, Italy)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 16: ARTIFICIAL INTELLIGENCE AND CONTROL THEORY**SESSION CHAIR: JAIMIE KELLEY (DENISON UNIVERSITY, USA)****SESSION TIME: 12.45 P.M – 2.00 P.M THURSDAY, 29TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570680078	Maximizing Airtime Efficiency for Reliable Broadcast Streams in WMNs with Multi-Armed Bandits	Giovanni Perin (Università degli Studi di Padova, Italy); David Nophut (Technische Universität Dresden, Germany); Leonardo Badia (Università degli Studi di Padova, Italy); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)
1.00 P.M–1.15 P.M	1570673241	Mitigation of Odometer Fraud for In-Vehicle Security Using the Discrete Hartley Transform	Gianmarco Baldini (Joint Research Centre - European Commission, Italy); Raimondo Giuliani (EC JRC, Italy); Monica Gemo (European Commission Joint Research Centre, Italy)
1.15 P.M–1.30 P.M	1570681241	Sensors Based Lane Keeping and Cruise Control of Self Driving Vehicles	Brook Abegaz and Naxi Shah (Loyola University Chicago, USA)
1.30 P.M–1.45 P.M	1570680624	Optimized Approach to Improve Classification of Wrist Movements via Electromyography Signals	Almon Chai (Swinburne University of Technology, Malaysia); Phei Chin Lim (Universiti Malaysia Sarawak, Malaysia)
1.45 P.M – 2.00 P.M	1570677155	Identification of Food Waste Through Object Recognition	Gregg Vesonder, Lynda Farinella, Eric Fernandes, Nathan Michener and Marco Polimeni (Stevens Institute of Technology, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

DAY: 3**30th October, 2020**

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.45 A.M – 9:30 A.M	KEYNOTE ADDRESS BY SANJAY SHAKKOTTAI (PROFESSOR, UNIVERSITY OF TEXAS,USA) TITLE OF TALK: MULTI-AGENT MULTI-ARMED BANDITS	IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY
9:30 A.M – 10.15 A.M	KEYNOTE ADDRESS BY CONSTANTINE CARAMANIS (PROFESSOR, UNIVERSITY OF TEXAS,USA) TITLE OF TALK: TRACKING AND CURING EPIDEMICS WITH UNCERTAINTY	
10.15 A.M – 11.00 A.M	KEYNOTE ADDRESS BY VASILIS CAPOYLEAS (RESEARCH DIRECTOR, PHENOMETRY INC.,USA) TITLE OF TALK: FREE FORM SURFACE DESIGN BY LAYMEN USING SMALL DEVICES: VIABILITY AND ECONOMIC IMPACT	

11.00 A.M -11.15 A.M	BREAK
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All the timings are given in Eastern Daylight time (EDT (GMT-4))

PARALLEL SESSIONS

SESSION 17: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: SHERIF S. RASHAD (MOREHEAD STATE UNIVERSITY, USA)

SESSION TIME: 11:15 A.M – 12:30 P.M FRIDAY, 30TH OCTOBER 2020

PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570675063	On the Development of Tools for Modelling Dynamic Beliefs Based on past Data	Aaron Hunter and Konstantin Boyarinov (BCIT, Canada)
11.30 A.M – 11.45 A.M	1570672645	Clustering Algorithms and RFM Analysis Performed on Retail Transactions	Eman Abdelfattah (Ramapo College of New Jersey, USA); Yash Parikh (Ramapo College, USA)
11.45 A.M – 12.00 P.M	1570675629	Computer-Aided Ischemic Stroke Classification from EEG Data Using a Single-Tiered Spiking Neural Network Framework	Elon Litman (USA)
12.00 P.M – 12.15 P.M	1570680509	Efficiency of Different Machine Learning Algorithms on the Multivariate Classification of IoT Botnet Attacks	Eman Abdelfattah and Shreehar Joshi (Ramapo College of New Jersey, USA)
12.15 P.M – 12.30 P.M	1570675580	SAS Mobile Application for Diagnosis of Obstructive Sleep Apnea Utilizing Machine Learning Models	Carl Haberfeld (Southern Connecticut State University, USA); Alaa Sheta (Southern CT State University, USA); Md Hossain (Southern Connecticut State University, USA); Hamza Turabieh (Taif University, Saudi Arabia); Salim Surani (Texas A&M University-Corpus Christi, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 18: DATA MINING AND MACHINE LEARNING**SESSION CHAIR: MD SHOHRAB HOSSAIN (BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY)****SESSION TIME: 11:15 A.M – 12:30 P.M FRIDAY, 30TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570681958	Mobile Natural Gas Concentration Intelligence Device Study for the Arctic	Alexey Lagunov (Northern Arctic Federal University named after M. V. Lomonosov, Russia)
11.30 A.M – 11.45 A.M	1570674070	Performance Maintenance over Time of Random Forest-Based Malware Detection Models	Colin Galen (Capitol Technology University, USA); Robert Steele (Capitol Technology University)
11.45 A.M – 12.00 P.M	1570674152	Using BERT to Extract Topic-Independent Sentiment Features for Social Media Bot Detection	Maryam Heidari and James Jones, Jr (George Mason University, USA)
12.00 P.M – 12.15 P.M	1570675650	Latent Walking Techniques for Conditioning GAN-Generated Music	Logan Eisenbeiser (Virginia Tech, USA)
12.15 P.M – 12.30 P.M	1570676434	Deep Convolutional Neural Network for Decoding EMG for Human Computer Interaction	Qi Wang (AI in Biomedical, USA); Xianping Wang (Purdue University of Northwest, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 19 : ELECTRONIC INSTRUMENTATIONS**SESSION CHAIR: SANDUN KURUPPU (SAGINAW VALLEY STATE UNIVERSITY, USA)****SESSION TIME: 11:15 A.M – 12:30 P.M FRIDAY, 30TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570676428	EMG-Based Hand Gesture Recognition by Deep Time-Frequency Learning for Assisted Living & Rehabilitation	Qi Wang (AI in Biomedical, USA); Xianping Wang (Purdue University of Northwest, USA)
11.30 A.M – 11.45 A.M	1570669064	Simple Dual Band Rectifier Based on Diplexer for Ambient RF Energy Harvesting Application	Hong Tien Vu (HUST, Vietnam); Quang Minh Dinh (School of Electrical Engineering, Hanoi University of Science and Technology, Vietnam); Minh Thuy Le (Hanoi University of Science and Technology (HUST) & School of Electrical Engineering (SEE), Vietnam)
11.45 A.M – 12.00 P.M	1570675595	Cross-Platform for the Development Environment of Smart Home System	Hong Yu, Joushua Lorrain, Cory Lo and Fanming Liu (Fitchburg State University, USA)
12.00 P.M – 12.15 P.M	1570679897	A 1.2-V 6-GHz Dual-Path Charge-Pump PLL Frequency Synthesizer for Quantum Control and Readout in CMOS 65-Nm Process	Vamshi Manthena (Brookhaven National Laboratory, USA)
12.15 P.M – 12.30 P.M	1570674825	Multi-Level Random Sample Consensus Method for Improving Structured Light Vision Systems	Zhankun Luo (Purdue University Northwest, USA); Yaan Zhang (University of Missouri, USA); Li Tan (Purdue University Northwest, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 20: ALGORITHMS AND FPGA DESIGN , APPLICATIONS**SESSION CHAIR: JAIMIE KELLEY (DENISON UNIVERSITY, USA)****SESSION TIME: 11:15 A.M – 12:30 P.M FRIDAY, 30TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11.15 A.M – 11.30 A.M	1570679724	ADCR: An Adaptive Tool to Select "Appropriate Developer for Code Review" Based on Code Context	Nafiz Sadman (Silicon Orchard R&D lab, USA); Md Manjurul Ahsan (University of Oklahoma, USA); M A Parvez Mahmud (Deakin University, Australia)
11.30 A.M – 11.45 A.M	1570674588	A Particle Swarm Optimization Algorithm to Meet Trust Requirements in Ridesharing Systems	Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)
11.45 A.M – 12.00 P.M	1570681693	Automated Portfolio Rebalancing Using Q-Learning	Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Raamanathan Gururajan, Aishwarya Kale, Amitavo Basu, Najmus Saquib, Pratik Bid, Sanket Savla, Sudarshan Singhavi and Anwesh Reddy Paduri (Great Learning, India)
12.00 P.M – 12.15 P.M	1570680601	An Unsupervised Learning Algorithm for Deep Recurrent Spiking Neural Networks	Pangao Du, Xianghong Lin, Xiaomei Pi and Xiangwen Wang (Northwest Normal University, China)
12.15 P.M – 12.30 P.M	1570681763	Radar Pulse on Pulse Identification Parallel FFT and Power Envelope Algorithm	Jordan Juliano and Jaron Lin (California State University, Fullerton, USA); Alex Erdogan (California state University Fullerton, USA); Kiran George (California State University, Fullerton, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

PARALLEL SESSIONS

SESSION 21: FPGA DESIGN , APPLICATIONS AND ARTIFICIAL INTELLIGENCE

SESSION CHAIR: MUHAMMAD SANA ULLAH (FLORIDA POLYTECHNIC UNIVERSITY, USA)

SESSION TIME: 12.45 P.M – 1.45 P.M FRIDAY, 30TH OCTOBER 2020

PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570681112	Reusable Spiking Neural Network Architecture	G. Pavan Sai and Binsu J Kailath (IIITDM Kancheepuram, India)
1.00 P.M–1.15 P.M	1570680625	An FPGA-Based Implementation Method for Quadratic Spiking Neuron Model	Han Lu, Xianghong Lin, Xiaomei Pi and Xiangwen Wang (Northwest Normal University, China)
1.15 P.M–1.30 P.M	1570680454	A Machine Learning Approach to TemporalTraffic-Aware Energy-Efficient CellularNetworks	Aristide Tanyi-Jong Akem and Edwin Mugume (Carnegie Mellon University Africa, Rwanda)
1.30 P.M – 1.45 P.M	1570673095	An FPGA-Based Optimized Memory Controller for Accessing Multiple Memories	Shrikant S Jadhav (Fort Lewis College, USA); Clay Gloster (NC A & T University, USA); Jannatun Naher (North Carolina A&T State University, USA); Christopher Doss (North Carolina A & T State University, USA); Young Soo Kim (Bradley University, USA)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 22: ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING**SESSION CHAIR: KRISTIINA VALTER MAI (RYERSON UNIVERSITY, CANADA)****SESSION TIME: 12.45 P.M–2.00 P.M FRIDAY, 30TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570680904	An Empirical Analysis of Generative Adversarial Network Training Times with Varying Batch Sizes	Bhaskar Ghosh and Indira Dutta (University of Louisiana at Lafayette, USA); Albert Carlson (Camqed Labs, USA); Michael W Totaro (University of Louisiana at Lafayette & Ray P. Authement College of Sciences, USA); Magdy Bayoumi (University of Louisiana at Lafayette, USA)
1.00 P.M–1.15 P.M	1570681714	Coronavirus Outburst Prediction in India Using SEIRD, Logistic Regression and ARIMA Model	Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Vaibhav Kherde, Kameswara Rao, Deepali Nikam, Swanand Katdare, Anima Shukla, Anagha Lomate and Anwesh Reddy Paduri (Great Learning, India)
1.15 P.M–1.30 P.M	1570676486	Three-Dimensional Down-View Imaging Based on MIMO Through-Wall-Radar	Zihan Xu, Li Jiang, Yiduo Liang and Yong Jia (Chengdu University of Technology, China); Guolong Cui (University of Electronic Science and Technology of China (UESTC), China); Longfei Tan (Sichuan Fire Science and Technology Research Institute of MEM, China)
1.30 P.M–1.45 P.M	1570677444	Implementation and Performance Evaluation of Overlay End System Multicast (ESM) for Stable and Fast Streaming of Multimedia Applications over Satellite Networks	Khaled M. Elleithy (School of Engineering, University of Bridgeport, USA); Thomas Arciuolo (University of Bridgeport, USA); Akram Abu-aisheh (University of Hartford, USA)
1.45 P.M – 2.00 P.M	1570681866	Facial Expression Recognition and Recommendations Using Deep Neural Network With Transfer Learning	Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Ankur Pathak, Rahul Choubey Choubey, Sajal Suryavanshi, Pratik Salvi and Anwesh Reddy Paduri (Great Learning, India)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 23: GREEN WIRELESS NETWORKS AND MOBILE AND WIRELESS COMPUTING**SESSION CHAIR: AHMED HASSEBO (PURDUE UNIVERSITY NORTHWEST, USA)****SESSION TIME: 12.45 P.M–2.00 P.M FRIDAY, 30TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570677700	Localization Methods Based on Error Analysis and Modeling in One Dimension	Omar A. Zargelin (Al Zintan University, Libya); Fadel M Lashhab (Howard University & Washington DC, USA); Walid K. A. Hasan (Nalut University, Libya)
1.00 P.M–1.15 P.M	1570680420	Design and Implementation of a Heterogeneous Multi-Hop OWC/RF Relay Architecture for Opportunistic Ultra-Dense Wireless Networks	Jiali Li and Rex Li (University of Massachusetts, Boston, USA); Michael Rahaim (University of Massachusetts Boston, USA)
1.15 P.M–1.30 P.M	1570677702	Localization Methods Based on Error Analysis and Modeling in Two Dimensions	Omar A. Zargelin (Al Zintan University, Libya); Fadel M Lashhab (Howard University & Washington DC, USA); Walid K. A. Hasan (Nalut University, Libya)
1.30 P.M–1.45 P.M	1570681144	IEEE 802.11ad Communication Quality Measurement in In-Vehicle Wireless Communication with Real Machines	Ryoko Nino (Nagoya University, Japan); Takayuki Nishio (Kyoto University, Japan); Tutomu Murase (Nagoya University, Japan)
1.45 P.M – 2.00 P.M	1570680744	Performance Evaluation for Tracking a Malicious UAV Using an Autonomous UAV Swarm	Christopher D Arnold and Jason Brown (University of Southern Queensland, Australia)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 24: MOBILE AND WIRELESS COMPUTING AND OTHERS**SESSION CHAIR: BROOK ABEGAZ (LOYOLA UNIVERSITY CHICAGO, USA)****SESSION TIME: 12.45 P.M–2.00 P.M FRIDAY, 30TH OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.45 P.M–1.00 P.M	1570675623	Radio-Factor Authentication: Identity Management over the 900MHz Band	Daniel DeBruno, Kyle Moissinac, Joseph Severt and Abdelrahman Elleithy (William Paterson University, USA)
1.00 P.M–1.15 P.M	1570681122	Prediction of Dengue Infected Areas Using A Novel Blockchain Based Crowdsourcing Framework	Md Shohel Khan, Ajoy Das and Md Shohrab Hossain (Bangladesh University of Engineering and Technology, Bangladesh); Husnu S Narman (Marshall University, USA)
1.15 P.M–1.30 P.M	1570681194	Enforcing Location-Based Access Policies Using the Existing IEEE 802.11 Infrastructure	Hosam Alamleh (University of North Carolina Wilmington & Louisiana Tech University, USA); Ali Abdullah S. AlQahtani (University of Wisconsin-Green Bay, USA)
1.30 P.M–1.45 P.M	1570681779	A Critical Review of Credit Card Fraud Detection Techniques	Baker Al Smadi and Manki Min (Louisiana Tech University, USA)
1.45 P.M – 2.00 P.M	1570677920	Non-Orthogonal Multiple Access for Terahertz Communication Networks	Oguz Ulgen (Huawei Turkey R&D Center, Turkey); Serhat Erkucuk (Kadir Has University, Turkey); Tuncer Baykas (Istanbul Medipol University, Turkey)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

DAY: 4**31st October, 2020**

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.45 A.M – 9:30 A.M	KEYNOTE ADDRESS BY C. LEE GILES (PROFESSOR, PENNSYLVANIA STATE UNIVERSITY,USA)) TITLE OF TALK: RECURRENT NEURAL NETWORKS: XAI WITH AUTOMATA AND GRAMMARS	IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY
9:30 A.M – 10.15 A.M	KEYNOTE ADDRESS BY VIJAYAKUMAR BHAGAVATULA (PROFESSOR, CARNEGIE MELLON UNIVERSITY) TITLE OF TALK: LEARNING FROM WEAKLY-SUPERVISED IMAGE DATA	
10.15 A.M – 10.30 A.M	BREAK	

All the timings are given in Eastern Daylight time (EDT (GMT-4))

PARALLEL SESSIONS

SESSION 25: IMAGE PROCESSING AND INFORMATION SECURITY

SESSION CHAIR: SHERIF S. RASHAD (MOREHEAD STATE UNIVERSITY, USA)

SESSION TIME: 10.30 A.M – 11.45 A.M SATURDAY, 31ST OCTOBER 2020

PARTICIPATION LINK:IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.30 A.M – 10.45 A.M	1570674325	Autonomous Ripeness Detection Using Image Processing for an Agricultural Robotic System	Balasubramaniyan Chandrasekaran and Zubaidah Al-Mashhadani (Florida Polytechnic University, USA)
10.45 A.M – 11.00 A.M	1570678231	Enhanced Security Architecture for Visual Cryptography Based on Image Secret Sharing	Manas A Gundapuneni (Motilal Nehru National Institute of Technology Allahabad, India); Anzum Bano (Motilal Nehru National Institute of Technology, Allahabad, India); Navjot Singh (MNNIT Allahabad, India)
11.00 A.M – 11.15 A.M	1570681527	Towards Contactless Monitoring of Blood Pressure at Rest and During Exercise Using Infrared Imaging	Joseph Finkelstein and In cheol Jeong (Icahn School of Medicine at Mount Sinai, USA)
11.15 A.M – 11.30 A.M	1570670860	The Capacity of Multi-User Private Information Retrieval for Computationally Limited Databases	William B Barnhart (HawkEye 360 & George Mason University, USA); Zhi Tian (George Mason University, USA)
11.30 A.M – 11.45 A.M	1570677813	Cyber Fraud: Detection and Analysis of the Crypto-Ransomware	Ilker Kara (Cankiri Karetekin University, Turkey); Murat Aydos (Hacettepe University, Turkey)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 26: INFORMATION SECURITY AND ARTIFICIAL INTELLIGENCE**SESSION CHAIR: SUDARSHAN S CHAWATHE (UNIVERSITY OF MAINE, USA)****SESSION TIME: 10.30 A.M – 11.45 A.M SATURDAY, 31ST OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.30 A.M – 10.45 A.M	1570681205	Healthcare Security Based on Blockchain Within Multi- Parameters Chaotic Map	Azhar Hasan Drebee (University of Ankara Yildirim Beyazit, Turkey); Ahmet E Topcu (American University of the Middle East, Kuwait); Yasamin Alagrash (Oakland University, USA)
10.45 A.M – 11.00 A.M	1570682003	Detection of Undesired Events on Real-World SCADA Power System Through Process Monitoring	Md. Turab Hossain and Md Shohrab Hossain (Bangladesh University of Engineering and Technology, Bangladesh); Husnu S Narman (Marshall University, USA)
11.00 A.M – 11.15 A.M	1570670704	Creating and Using Secure Software	Md L Ali and Adam Asadoorian (Rider University, USA); Melvin Alberto (Rider University, USA)
11.15 A.M – 11.30 A.M	1570680278	A Comparison of Blockchain-Based Wireless Sensor Network Protocols	Abena Primo (Huston-Tillotson University, USA)
11.30 A.M – 11.45 A.M	1570681876	Computer Vision Based License Plate Detection for Automated Vehicle Parking Management System	Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Ashwin Narayanan, Faisal Khan, Kiran Mogeraya, Prasanna Siva, Praful Mohan Agadi, Shubham Mandal and Anwesh Reddy Paduri (Great Learning, India)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 27: NATURAL LANGUAGE PROCESSING AND NETWORK SECURITY AND OTHERS**SESSION CHAIR: EMAN ABDELFAH (RAMAPO COLLEGE OF NEW JERSEY, USA)****SESSION TIME: 10.30 A.M – 11.45 A.M SATURDAY, 31ST OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.30 A.M – 10.45 A.M	1570674682	Alexa Eldercare Toolbox: A Smarthome Solution for the Elderly	Gregg Vesonder, Kristen Tan, Karun Sekhar, Jenna Wong, Jared Holgado and Michael Ameer (Stevens Institute of Technology, USA)
10.45 A.M – 11.00 A.M	1570680956	An Efficient Accelerated Learning Algorithm for Tracking of Unknown, Spatially Correlated Signals in Ad-Hoc Wireless Sensor Networks	Hadi Alasti (IPFW, USA)
11.00 A.M – 11.15 A.M	1570676787	Eldercare Robotics - Alexa	Gregg Vesonder, Eunseo Lee and Elijah Wendel (Stevens Institute of Technology, USA)
11.15 A.M – 11.30 A.M	1570680689	Estimating Attack Risk of Network Activities in Temporal Domain: A Wavelet Transform Approach	Soo-Yeon Ji (Bowie State University, USA); Bong-Keun Jeong (Coastal Carolina University, USA); Charles A Kamhoua (US Army Research Laboratory & Network Science Division, USA); Nandi Leslie (CCDC Army Research Laboratory & Raytheon, USA); Dong Jeong (University of the District of Columbia, USA)
11.30 A.M – 11.45 A.M	1570680580	The Largest QWI in the InGaP/InAlGaP Laser Structure Using High Compressive Strain at Elevated Temperatures	Mohammed Abdul Majid (Effat University, An Nazlah Al Yamaniyyah, Saudi Arabia)

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SESSION 28: NETWORK SECURITY AND ROBOTICS**SESSION CHAIR: TUTOMU MURASE (NAGOYA UNIVERSITY, JAPAN)****SESSION TIME: 10.30 A.M – 11.45 A.M SATURDAY, 31ST OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10.30 A.M – 10.45 A.M	1570674412	Performance Evaluation of Machine Learning for Prediction of Network Traffic in a Smart Home	Faisal Alghayadh and Debatosh Debnath (Oakland University, USA)
10.45 A.M – 11.00 A.M	1570672000	Social Engineering Attacks A Reconnaissance Synthesis Analysis	Fatima Salahdine (University of North Dakota & University of North Carolina at Charlotte, USA); Naima Kaabouch, Amber Johnston, Gloria M Rodriguez and Maha Rita Arabia- Obedoza (University of North Dakota, USA)
11.00 A.M – 11.15 A.M	1570680779	Implementing Asymmetric Cryptography in High-Speed Data Transmission over Power Line	Frederik Valocký (Slovak University of Technology in Bratislava, Slovakia); Martin Puchalik (Slovak University of Technology in Bratislava (STU), Slovakia); Milos Orgon (Slovak University of Technology in Bratislava (STU), Slovakia)
11.15 A.M – 11.30 A.M	1570676615	Smart Real-Time Autonomous Navigation System Using Integration of MEMS-Based Low-Cost IMU/GPS	Nader Nagui (Arab Academy for Science, Technology & Maritime Transport, Egypt); Omneya Attallah (Post Dr & Arab Academy for Science and Technology and Maritime Transport, Egypt); Mohamed Zagloul (Arab Academy For Science And Technology, Egypt); Iman Gamal Eldin Morsi (Arab Academy for Science and Technology, Egypt)
11.30 A.M – 11.45 A.M	1570682098	Crowdsensing Strategies Inspired by Choir Management Analyzed via Game Theory	Leonardo Badia and Nunzio Borra (Università degli Studi di Padova, Italy)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

PARALLEL SESSIONS

SESSION 29: ARTIFICIAL INTELLIGENCE AND ROUTING, QOS

SESSION CHAIR: MD L ALI (RIDER UNIVERSITY, USA)

SESSION TIME: 12.00 P.M -1.15 P.M SATURDAY, 31ST OCTOBER 2020

PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.00 P.M-12.15 P.M	1570682063	Movie Success Prediction Using ML	Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Sujana Entoori, S v Vybhav, Christopher Bellarmine, Abir Kumar, Koushik Mondal and Anwesh Reddy Paduri (Great Learning, India)
12.15 A.M-12.30 P.M	1570674814	Adaptive Modulation Regenerator and Distance Aware Algorithm for Dynamic Routing in Elastic Optical Networks	Siwei Zhao, Sanyami Shah, Kishan Patel, Nickyta Patel and Vachana Shetty (Northeastern University, USA); Michal Aibin (British Columbia Institute of Technology, Canada & Northeastern University, USA)
12.30 A.M-12.45 P.M	1570682072	Effects of Lockdown and Post Lockdown on Covid19 Cases Across India Using Supervised Learning Techniques	Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Rajiv Tiwari, Amol Kobal, Suman Saurav, Rohit Chaoji and Anwesh Reddy Paduri (Great Learning, India)
12.45 A.M-1.00 P.M	1570677031	On Efficient Candidate Path Selection for Dynamic Routing in Elastic Optical Networks	Bijal Patel, Haiyang Ji, Swati Nayak, Ting Ding and Yue Pan (Northeastern University, USA); Michal Aibin (British Columbia Institute of Technology, Canada & Northeastern University, USA)
1.00 P.M - 1.15 P.M	1570682069	Forecasting of COVID-19 in India Using ARIMA Model	Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Pooja Acharya, Deepak Reddy, Nithin H s and Anwesh Reddy Paduri (Great Learning, India)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 30: VLSI AND TELECOMMUNICATION SYSTEMS**SESSION CHAIR: MICHAEL RAHAIM (UNIVERSITY OF MASSACHUSETTS BOSTON, USA)****SESSION TIME: 12.00 P.M-1.00 P.M SATURDAY, 31ST OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.00 P.M-12.15 P.M	1570669072	A 250 MHz-To-1.6 GHz Phase Locked Loop Design in Hybrid FinFET-Memristor Technology	Naheem Adesina (Louisiana State University, USA) , Ashok Srivastava (Louisiana State University, USA)
12.15 P.M-12.30 P.M	1570681499	Optimal Labeling with Cyclic Gray Codes for Generalized 16PAM Constellations	Brett Wiens and Daniel Lee (Simon Fraser University, Canada)
12.30 P.M-12.45 P.M	1570673986	Assertion and Coverage Driven Test Generation Tool for RTL Designs	Khaled Salah Mohamed (Mentor, A Siemens Business, USA); Nourhan Muhammed and Nour Hussein (Ain-Shams University, Egypt); Ayub Khan (Siemens Business, Fremont, India)
12.45 P.M-1.00 P.M	1570681129	QoS Control for Mission-Critical Communication on Vehicles with IEEE802.11 Wireless LAN Under Dynamic Interference	Takumi Shiohara and Tutomu Murase (Nagoya University, Japan)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 31: ALGORITHMS, THEORY AND ROUTING**SESSION CHAIR: CAMILA DE SOUZA (WESTERN UNIVERSITY, CANADA)****SESSION TIME: 12.00 P.M-1.00 P.M SATURDAY, 31ST OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.00 P.M-12.15 P.M	1570672322	Analysis and Synthesis of Respiratory Rate for Male Patients	Muhammad Sana Ullah (Florida Polytechnic University & University of Missouri-Kansas City, USA); Eder Mendoza (Florida Polytechnic University, USA)
12.15 P.M-12.30 P.M	1570674014	Comparison of Convolutional Neural Network Architectures on Dermastopic Imagery	William F Chabala and Ismail Jouny (Lafayette College, USA)
12.30 P.M-12.45 P.M	1570674386	HC-LEACH: Huffman Coding-Based Energy-Efficient LEACH Protocol for WSN	Djamila Mechta (Université Ferhat ABBAS de Sétif, Algeria); Saad Harous (UAE University, United Arab Emirates)
12.45 P.M 1.00 P.M	1570676483	DCCORONA: Distributed Cluster-Based Coordinate and Routing System for Nanonetworks	Islam Amine Bouchedjera (LRSD Laboratory & Faculty of Sciences, University Ferhat Abbas Setif-1, Algeria); Lemia Louail (University of Sétif 1 & Faculty of Sciences, Algeria); Zibouda Aliouat (University Ferhat Abbas Setif 1 El bez, Algeria); Saad Harous (UAE University, United Arab Emirates)

All the timings are given in Eastern Daylight time (EDT (GMT-4))

SESSION 32: CLOUD COMPUTING,IOT AND OTHERS**SESSION CHAIR: DOUGLAS E DOW (WENTWORTH INSTITUTE OF TECHNOLOGY, USA)****SESSION TIME: 12.00 P.M -12.45 P.M SATURDAY, 31ST OCTOBER 2020****PARTICIPATION LINK: IT WILL BE EMAILED TO THE PARTICIPANTS DIRECTLY**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.00 P.M-12.15 P.M	1570681804	Pulse Separation Using Independent Component Analysis	Jaron Lin and Jordan Juliano (California State University, Fullerton, USA); Alex Erdogan (California state University Fullerton, USA); Kiran George (California State University, Fullerton, USA)
12.15 P.M-12.30 P.M	1570682126	Robust Cellular Connectivity-Based Smart LED Street Lighting System: A Platform for Innovative Mission Critical Smart City IoT Applications	Ahmed Hassebo (Purdue University Northwest, USA); Mohamed A Ali (City University of New York, USA)
12.30 P.M -12.45 P.M	1570682106	Conceptual Neuroadaptive Brain Computer Interface for Autonomous Control of Automobile Brakes	Devaj N Parikh and Kiran George (California State University, Fullerton, USA)

TIME ALLOTTED	ACTIVITY	PARTICIPATION LINK
1.30 P.M- 2.00P.M	VALEDICTORY SESSION	

All the timings are given in Eastern Daylight time (EDT (GMT-4))