



IEEE UEMCON-2019

**The 10th IEEE annual Ubiquitous Computing, Electronics and Mobile Communication Conference
Columbia University, New York, USA
10th – 12th October, 2019**

TECHNICAL SCHEDULE

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DAY 1: 10th October, 2019

TIME	NAME OF THE EVENT	VENUE
8:00 A.M – 8:30 A.M	REGISTRATION	PRESIDENTIAL RECEPTION AREA
8:30 A.M – 9:00 A.M	BREAKFAST	PRESIDENTIAL

		BALLROOM
9:00 A.M – 9:30 A.M	INAUGURATION	PRESIDENTIAL BALLROOM
9:30 A.M – 10:00 A.M	KEYNOTE ADDRESS BY TENDAI GOMO (GOOGLE, USA) TITLE OF TALK: BUILDING LOW-LEVEL SOFTWARE FOR HIGH-LEVEL FUNCTION	PRESIDENTIAL BALLROOM
10:00 A.M – 10:30 A.M	KEYNOTE ADDRESS BY MICHELE LYNN-MOORE MYAUO (MICROSOFT CORPORATION, USA) TITLE OF TALK: YOU ARE UNDER ATTACK.	PRESIDENTIAL BALLROOM
10: 30 A.M – 11:00 A.M	KEYNOTE ADDRESS BY ALEXANDER PODELKO (ORACLE, USA) TITLE OF TALK: INTERNET OF THINGS: PERFORMANCE, CAPACITY, AND SCALABILITY ASPECTS	PRESIDENTIAL BALLROOM
11:00 A.M – 11:30 P.M	COFFEE BREAK	PRESIDENTIAL BALLROOM
11: 30 A.M- 12:00 P.M	KEYNOTE ADDRESS BY HUGH SEATON (ADEPT REALITY, USA) TITLE OF TALK: UNFINISHED GATEWAYS: MOBILE & WEARABLE DEVICES IN THE ARCLOUD	PRESIDENTIAL BALLROOM
12:00 P.M – 12:30 P.M	KEYNOTE ADDRESS BY DOUGLAS BLANK (HEAD OF RESEARCH AT COMET.ML, USA) TITLE OF TALK: SOFTWARE ENGINEERING FOR MACHINE LEARNING.	PRESIDENTIAL BALLROOM
12:30 P.M – 1:00 P.M	KEYNOTE ADDRESS BY BERNARD FRANÇOIS (FOUNDER, PREVIEWLABS INC., USA) TITLE OF TALK: RAPID PROTOTYPING FOR IOT AND AUGMENTED REALITY.	PRESIDENTIAL BALLROOM
1:00 P.M – 2:00 P.M	LUNCH AND BEST PAPER AWARD CEREMONY	PRESIDENTIAL BALLROOM

PARALLEL SESSIONS

SESSION 1: WIRELESS NETWORK

SESSION CHAIR: KHALED ELLEITHY (UNIVERSITY OF BRIDGEPORT, USA)

SESSION TIME: 2:00 P.M – 3:45 P.M

VENUE: 1754 Boardroom

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570566143	A Raspberry Pi Mesh Sensor Network for Portable Perimeter Security	Cullen Johnson, Brian Curtin, Nikhil Shyamkumar, Rachele David and Emmet Dunham (United States Military Academy, USA); Preston Haney and Harry Moore (United States Army Futures Command, USA); Thomas Babbitt (USMA, USA); Suzanne J Matthews (United States Military Academy, USA)
2:15 P.M – 2:30 P.M	1570564666	Use of Sensor Node Networks for Car Security	Rafael Lopez, Christian DeGuzman and Abdelrahman Elleithy (William Paterson University, USA)
2:30 P.M – 2:45 P.M	1570572114	Location Tracking of Mobile Objects and the Privacy Tradeoff	Abdelrahman Elleithy, Sara Steinel, Justin Chudley and Ryan Mendoza (William Paterson University, USA)
2:45 P.M – 3:00 P.M	1570557633	Pilot Study of Emergency Department Patient Vital Signs Acquisition Using Experimental Video Photoplethysmography and Passive Infrared Thermography Devices	Leo Kobayashi (Alpert Medical School of Brown University, USA); Carlin Chuck, Chris Kim and Katherine Luchette (Brown University, USA); Alana Oster (Rhode Island Hospital, USA); Derek Merck (Alpert Medical School of Brown University, USA); Ihor Kirenko (Philips Research Laboratories, The Netherlands); Kees van Zon (Philips Research, USA); Marek Bartula (Philips Research Europe, The Netherlands); Mukul Rocque (Philips Research, The Netherlands); Haibo Wang (Philips Research, USA); Geoffrey A Capraro (Alpert Medical School of Brown University, USA)
3:00 P.M – 3:15 P.M	1570575735	Scavenging Residual Energy from Wi-Fi Sources Using a Rectenna Circuit	Riken Parekh and David Luu (California State University Fullerton, USA); Kushal Jain and Kiran George (California State University, Fullerton,

			USA);AbhishekSSarode(CaliforniaStateUniversityFullerton,USA)
3:15 P.M – 3:30 P.M	1570576352	Optimized Wireless Connectivity for Cyber-Physical Systems with Publisher/Subscriber Architecture	Milos Pilipovic (University of Novi Sad, Serbia); Dragan Samardzija (Bell Labs, Nokia, USA)
3:30 P.M – 3:45 P.M	1570584408	Simulation of Transitional and Bursty Wireless Visual Sensor Networks	Mark Caswell (IUPUI, USA); Yao Liang (Indiana University-Purdue University Indianapolis, USA)

SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: SON VUONG (UNIVERSITY OF BRITISH COLUMBIA, CANADA)

SESSION TIME: 2:00 P.M – 3:45 P.M

VENUE: Garden Room 1

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570563227	Machine Learning Meteorologist Can Predict Rain	Eman Abdelfattah (Ramapo College of New Jersey, USA); Brandan Quinn (Ramapo College, USA)
2:15 P.M – 2:30 P.M	1570557234	Network Data Analysis to Support Risk Management in an IoT Environment	Melanie Seekins (Penn State & Altria Client Services LLC, USA); John Haller (Pennsylvania State University & PNC Bank, USA); Andrew Brandon (The Pennsylvania State University, USA); Beulah Joshua (Pennsylvania State University, USA)
2:30 P.M – 2:45 P.M	1570563232	Comparison of Machine Learning Models to Predict Twitter Buzz	Eman Abdelfattah (Ramapo College of New Jersey, USA); Yash Parikh (Ramapo College, USA)
2:45 P.M – 3:00 P.M	1570584871	What is A Robot Swarm: A Definition for Swarming Robotics	Ross Arnold, Kevin Carey, Benjamin Abruzzo and Christopher Korpela (US Army, USA)
3:00 P.M – 3:15 P.M	1570565400	Deep Learning for Inexpensive Image Classification of Wildlife on the Raspberry Pi	Brian Curtin and Suzanne J Matthews (United States Military Academy, USA)
3:15 P.M – 3:30 P.M	1570566231	A SS-CNN on an FPGA for Handwritten Digit Recognition	Jiong Si (University of Nevada, Las Vegas, USA); Evangelos Yfantis (University Of Nevada, USA); Sarah Harris (University of Nevada, Las Vegas, USA)
3:30 P.M – 3:45 P.M	1570563235	Performance of Classification Models on Various Types of Character Data	Eman Abdelfattah (Ramapo College of New Jersey, USA); Salil Maharjan and Vanesa Getseva (Ramapo College, USA)

SESSION 3: IOT, BIG DATA ANALYTICS AND DATA MANAGEMENT**SESSION CHAIR: CASIMER DECUSATIS (MARIST COLLEGE, USA)****SESSION TIME: 2:00 P.M – 3:45 P.M****VENUE: Garden Room 2**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570584560	Goal-Oriented Conversational System Using Transfer Learning and Attention Mechanism	Amartya Hatua (University of Southern Mississippi, USA); Trung Thanh Nguyen (The University of Southern Mississippi, USA); Andrew Sung (University of Southern Mississippi, USA)
2:15 P.M – 2:30 P.M	1570564718	Big Data Analytics in Cybersecurity: Network Data and Intrusion Prediction	Lidong Wang and Randy Jones (Mississippi State University, USA)
2:30 P.M – 2:45 P.M	1570562030	A Hive and SQL Case Study in Cloud Data Analytics	Shireesha Chandra, Aparna Varde and Jiayin Wang (Montclair State University, USA)
2:45 P.M – 3:00 P.M	1570563210	Image Recognition with MapReduce Based Convolutional Neural Networks	Jackie Leung and Min Chen (State University of New York - New Paltz, USA)
3:00 P.M – 3:15 P.M	1570574903	Exploring A Forecasting Structure for the Capacity Usage in Backup Storage Systems	Yaobin Qin (University of Minnesota, USA); Brandon Hoffmann (University of Minnesota and Veritas Technologies, USA); Yuwei Wang (University of Minnesota and Veritas Technologies, USA); David J. Lilja (University of Minnesota, USA)
3:15 P.M – 3:30 P.M	1570575504	Machine Learning Pipeline for Fraud Detection and Prevention in E-Commerce Transactions	Abhishek Verma (New Jersey City University, USA); Doina Bein and Resham Jhangiani (California State University, Fullerton, USA)
3:30 P.M – 3:45 P.M	1570586484	Improving Rider Safety Using QR Code & Fingerprint Biometrics	Raghu Avula and Cliff Zou (University of Central Florida, USA)

SESSION 4: IOT, BODY AND PERSONAL AREA NETWORK, EVOLUTIONARY ALGORITHM**SESSION CHAIR: SUDARSHAN S. CHAWATHE (UNIVERSITY OF MAINE, USA)****SESSION TIME: 2:00 P.M – 3:45 P.M****VENUE: Ivy Lounge**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570564879	Mitigating Implanted Medical Device Cybersecurity Risks	Chuck Easttom and Nagi Mei (Capitol Technology University, USA)
2:15 P.M – 2:30 P.M	1570575510	Novel Hash-Based Radix Sorting Algorithm	Abhishek Verma (New Jersey City University, USA); Paul Mandal (California State University, Fullerton, USA)
2:30 P.M – 2:45 P.M	1570588077	Security Architecture Framework for Internet of Things (IoT)	Muath Obaidat (City University of New York, USA)
2:45 P.M – 3:00 P.M	1570576075	A Novel Phase Tracking in ZigBee Receiver Using Extended Kalman Filtering over AWGN Channel	Ali Alqahtani, Mohamed Zohdy, Richard Olawoyin and Subramaniam Ganesan (Oakland University, USA)
3:00 P.M – 3:15 P.M	1570584765	Improv Performance with WiFi Enabled Costume Lights	Jaimie Kelley, Caileigh Marshall and Cynthia Turnbull (Denison University, USA)
3:15 P.M – 3:30 P.M	1570593476	Deep Convolutional Neural Networks for Breast Cancer Detection	Ankit Roy (Westfield High School, USA)
3:30 P.M – 3:45 P.M	1570577430	Time-Variant Broadband mmWave Channel Estimation Based on Compressed Sensing	Mohammadreza Robaei and Robert Akl (University of North Texas, USA)

TIME	NAME OF THE EVENT	VENUE
3:45 P.M – 4:15 P.M	Coffee Break and Poster Session	Ivy Lounge

SESSION 5: WIRELESS NETWORK, IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY**SESSION CHAIR: THOMAS BABBITT (UNITED STATES MILITARY ACADEMY, USA)****SESSION TIME: 4:15 P.M – 6:00 P.M****VENUE: 1754 Boardroom**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570584638	A Thermally Regulated Footwear & Alerting System	Nischal Paudyal, William Shue and Mahmoud Rabiah (Wentworth Institute of Technology, USA)
4:30 P.M – 4:45 P.M	1570586485	Duty-Cycled, Sub-GHz Wake-up Radio with -95dBm Sensitivity and Addressing Capability for Environmental Monitoring Applications	Agnelo R Silva (METER Group USA, USA)
4:45 P.M – 5:00 P.M	1570571327	A New Approach to Change Detection Using Heterogeneous Images	Bulent Ayhan and Chiman Kwan (Signal Processing, Inc., USA)
5:00 P.M – 5:15 P.M	1570584301	A Wearable Device Network to Track Animal Behavior and Relationships in the Wild	Luis Camal and Anup Kirtane (San Diego State University, USA); Teresa Blanco and Roberto Casas (University of Zaragoza, Spain); Federico Rossano (University of California San Diego, USA); Baris Aksanli (San Diego State University, USA)
5:15 P.M – 5:30 P.M	1570584636	Optimized IoT Based Decision Making for Autonomous Vehicles in Intersections	Ramin Sahba and Amin Sahba (The University of Texas at San Antonio, USA); Paul Rad (University of Texas at San Antonio, USA); Mo Jamshidi (University of Texas San Antonio & University of Texas @ San Antonio, USA)
5:30 P.M – 5:45 P.M	1570584368	Tracking the Mobile Jammer in Wireless Sensor Networks Using Extended Kalman Filter	Waleed Aldosari (Oakland University, USA)
5:45 P.M – 6:00 P.M	1570584579	A Secure IoT-Fog-Cloud Framework Using Blockchain Based on DAT for Mobile IoT	Joong-Lyul Lee and Stephen C Kerns (University of North Carolina at Pembroke, USA); Sangjin Hong (Saint Leo University, USA)

SESSION 6: INTERNET OF THINGS AND CLOUD COMPUTING**SESSION CHAIR: CASIMER DECUSATIS (MARIST COLLEGE, USA)****SESSION TIME: 4:15 P.M – 6:00 P.M****VENUE: Garden Room 1**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570576282	Facial Expression Recognition Using DCNN and Development of an iOS App for Children with ASD to Enhance Communication Abilities	Md Inzamam Ul Haque and Damian Valles (Texas State University, USA)
4:30 P.M – 4:45 P.M	1570565776	Ubiquitous Access for Local Water Management Through HCI Based App Development	Drashti Pathak (Montclair State University & United States of America, USA); Aparna Varde, Clement Alo and Felix Oteng (Montclair State University, USA)
4:45 P.M – 5:00 P.M	1570584711	Data Modeling for a NoSQL Database Service	Sudarshan S Chawathe (University of Maine, USA)
5:00 P.M – 5:15 P.M	1570576378	A New Approach Towards Fully Homomorphic Encryption over Geometric Algebra	David William Honorio Araujo da Silva and Carlos Paz de Araujo (University of Colorado Colorado Springs, USA); Edward Chow (University of Colorado at Colorado Springs, USA); Bryan Sosa Barillas (University of Colorado Colorado Springs, USA)
5:15 P.M – 5:30 P.M	1570584824	Securing a Connected Home	Lucien Ngalamou (Lewis University, USA)
5:30 P.M – 5:45 P.M	1570584842	Securing Wireless Scada Systems in Rural American Power Grids	Lucien Ngalamou (Lewis University, USA)
5:45 P.M – 6:00 P.M	1570584595	Trusted Remote Function Interface	Mark E Royer and Sudarshan S Chawathe (University of Maine, USA)

SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: SIDDHARTHA BHATTACHARYYA (FLORIDA INSTITUTE OF TECHNOLOGY, USA)****SESSION TIME: 4:15 P.M – 6:00 P.M****VENUE: Garden Room 2**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570584584	AdRemover: The Improved Machine Learning Approach for Blocking Ads	Thu Vo and Chetan Jaiswal (Truman State University, USA)
4:30 P.M – 4:45 P.M	1570566594	SIPSA: Secure IoT Protocol-Based Smart Adapter for Communicating and Optimizing Building Energy Management with Smart Grid	Meizhu He (Shenzhen Ezen Technology Co., Ltd., P.R. China); Leon Wu (Columbia University, USA)
4:45 P.M – 5:00 P.M	1570580515	Thin MobileNet: An Enhanced MobileNet Architecture	Mohamed El-Sharkawy and Debjyoti Sinha (Purdue School of Engineering and Technology, USA)
5:00 P.M – 5:15 P.M	1570583606	Deep Learning for Remote Sensing Image Super-Resolution	Md Reshad Ul Hoque and Jiang Li (Old Dominion University, USA); Chiman Kwan (Signal Processing, Inc., USA); Roland L Burks (Samford University, USA)
5:15 P.M – 5:30 P.M	1570573232	Derivative-Free Optimization of Neural Networks Using Local Search	Ahmed Aly, Gianluca Guadagni and Joanne Dugan (University of Virginia, USA)
5:30 P.M – 5:45 P.M	1570579494	Machine Learning Models to Predict Multiclass Protein Classifications	Eman Abdelfattah (Ramapo College of New Jersey, USA); Yash Parikh (Ramapo College, USA)
5:45 P.M – 6:00 P.M	1570584635	Cumulative Training and Transfer Learning for Multi-Robots Collision-Free Navigation Problems	Trung Thanh Nguyen (The University of Southern Mississippi, USA); Amartya Hatua and Andrew Sung (University of Southern Mississippi, USA)

SESSION 8: ARTIFICIAL INTELLIGENCE, IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY**SESSION CHAIR: KHALED ELLEITHY (UNIVERSITY OF BRIDGEPORT, USA)****SESSION TIME: 4:15 P.M – 6:00 P.M****VENUE: Ivy Lounge**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570584580	Vision-Based Trainable Robotic Arm for Individuals with Motor Disability	Abhishek S Sarode and Durga Sundaram (California State University Fullerton, USA); Kiran George (California State University, Fullerton, USA)
4:30 P.M – 4:45 P.M	1570571324	New Results in Change Detection Using Optical and Multispectral Images	Bulent Ayhan and Chiman Kwan (Signal Processing, Inc., USA)
4:45 P.M – 5:00 P.M	1570578453	Network Traffic-Based Hybrid Malware Detection for Smartphone and Traditional Networked Systems	Quamar Niyaz (Purdue University Northwest, USA); Safia Rahmat, Weiqing Sun, Ahmad Y Javaid and Akshay Mathur (University of Toledo, USA)
5:00 P.M – 5:15 P.M	1570576070	Drones' Face off: Authentication by Machine Learning in Autonomous IoT Systems	Mehdi Karimibiuki, Michal Aibin, Raziq Khan, Yuyu Lai and Ryan Norfield (British Columbia Institute of Technology, Canada); Aaron Hunter (BCIT, Canada)
5:15 P.M – 5:30 P.M	1570571326	Practical Considerations in Unsupervised Change Detection Using SAR Images	Bulent Ayhan and Chiman Kwan (Signal Processing, Inc., USA)
5:30 P.M – 5:45 P.M	1570584558	Robust Data Retrieval from High-Security Structural Colour QR Codes via Histogram Equalization and Decorrelation Stretching	Mahssa Abdolahi, Hao Jiang and Bozena Kaminska (Simon Fraser University, Canada)
5:45 P.M – 6:00 P.M	1570584538	Identifying Generic Features for Malicious URL Detection System	Quamar Niyaz and Hafiz Mohammd Junaid Khan (Purdue University Northwest, USA); Vijaya Kumar Devabhaktuni (University of Purdue Northwest, USA); Site Guo (BeulahWorks, USA); Umair Shaikh (Georgia Institute of Technology, USA)

DAY: 2**11th October, 2019**

TIME	NAME OF THE EVENT	VENUE
8:00 A.M – 8:30 A.M	REGISTRATION	PRESIDENTIAL RECEPTION AREA
8:30 A.M – 9:00 A.M	BREAKFAST	PRESIDENTIAL BALLROOM
9:00 A.M – 9:45 A.M	KEYNOTE ADDRESS BY VINCENT W. S. CHAN (MASSACHUSETTS INSTITUTE OF TECHNOLOGY, USA) TITLE OF TALK: RESEARCH FRONTIERS IN COMMUNICATIONS AND NETWORKS	PRESIDENTIAL BALLROOM
9:45 A.M – 10:30 A.M	KEYNOTE ADDRESS BY KEN BIRMAN (CORNELL UNIVERSITY, USA) TITLE OF TALK: BUILDING SMART MEMORIES AND RESPONSIVE EDGE SERVICES WITH DERECHO	PRESIDENTIAL BALLROOM
10:30 A.M – 11:15 A.M	KEYNOTE ADDRESS BY PETER K. ALLEN (COLUMBIA UNIVERSITY, USA) TITLE OF TALK: TEACHING ROBOTS TO GRASP VIA MULTI-MODAL GEOMETRIC LEARNING	PRESIDENTIAL BALLROOM
11:15 A.M – 11:30 A.M	COFFEE BREAK	PRESIDENTIAL BALLROOM
11: 30 A.M- 12:15 P.M	KEYNOTE ADDRESS BY JULIE DORSEY (YALE UNIVERSITY, USA) TITLE OF TALK: THE FUTURE OF SKETCH: HOW WOULD LEONARDO DRAW TODAY?	PRESIDENTIAL BALLROOM
12:15 P.M – 1:00 P.M	KEYNOTE ADDRESS BY STEPHEN B. WICKER (CORNELL UNIVERSITY, USA) TITLE OF TALK: READING IN THE PANOPTICON: A CASE STUDY IN WIRELESS SURVEILLANCE.	PRESIDENTIAL BALLROOM
1:00 P.M – 2:00 P.M	LUNCH	PRESIDENTIAL BALLROOM

PARALLEL SESSIONS

SESSION 9: CONTROL THEORY AND ROBOTICS

SESSION CHAIR: SIDDHARTHA BHATTACHARYYA (FLORIDA INSTITUTE OF TECHNOLOGY, USA)

SESSION TIME: 2:00 P.M – 3:45 P.M

VENUE Seminar Room 1

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570561886	Clock Variation Impact on Digital Control System Performance	Sandun Kuruppu and Alexander Shibilski (Saginaw Valley State University, USA)
2:15 P.M – 2:30 P.M	1570584493	Application of Robot Operating System In Robot Flocks	Gregg Vesonder, Jordan Fernandes, Keye Li and Joseph Mirabile (Stevens Institute of Technology, USA)
2:30 P.M – 2:45 P.M	1570570697	On Stability of Current Controlled Drives with Delay in Feedback Path	Sandun Kuruppu and Amina Shrestha (Saginaw Valley State University, USA); Rhishav Mahaju (Saginaw Valley State University & Halla Mechatronics, USA)
2:45 P.M – 3:00 P.M	1570584574	A Low-Power Optical Receiver for Contact-free Programming and 3D Localization of Autonomous Microsystems	Brad Wheeler (University of California, Berkeley, USA); Andrew Ng (UC Berkeley, USA); Brian Kilberg, Filip Maksimovic and Kris Pister (University of California, Berkeley, USA)
3:00 P.M – 3:15 P.M	1570575110	Control System Response Improvement via Denoising Using Deep Neural Networks	Kiavash Fathi and Mehdi Mahdavi (Isfahan University of Technology, Iran)
3:15 P.M – 3:30 P.M	1570584521	A Novel Double Spending Attack Countermeasure in Blockchain	Kervins Nicolas and Yi Wang (Manhattan College, USA)
3:30 P.M – 3:45 P.M	1570584571	Robotic Solutions for Eldercare	Gregg Vesonder, Vanessa DeFreese, Tyler Wright and Ivy Robalino (Stevens Institute of Technology, USA)

SESSION 10: ARTIFICIAL INTELLIGENCE, BIG DATA, AND IOT**SESSION CHAIR: EMAN ABDELFAHATTAH (RAMAPO COLLEGE OF NEW JERSEY, USA)****SESSION TIME: 2:00 P.M – 3:45 P.M****VENUE: Seminar Room 2**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570584645	Unsupervised Similarity-based Sensor Selection for Time Series Data	Badar Almarri (University of Connecticut & King Faisal University, USA); Chun-Hsi Huang (Southern Illinois University Carbondale, USA); Sanguthevar Rajasekaran (University of Connecticut, USA)
2:15 P.M – 2:30 P.M	1570572316	Machine Learning for DDoS Attack Classification Using Hive Plots	Pablo Rivas (Marist College, USA); Steven LaFalce (IBM Corporation, USA); Casimer DeCusatis, Matthew Oakley and Alex Antaki (Marist College, USA); Stephen Stone (IBM Corporation, USA); Nicholas Blaskey (Marist College, USA)
2:30 P.M – 2:45 P.M	1570584543	Machine Learning Models for Activity Recognition and Authentication of Smartphone Users	S. Sareh Ahmadi, Sherif S. Rashad and Heba Elgazzar (Morehead State University, USA)
2:45 P.M – 3:00 P.M	1570569213	What Makes a National Football League Team Successful? an Analysis of Play by Play Data	Joseph Ur and Mathew Craner (MacEwan University, Canada); Rehab El-Hajj (University of Alberta, Canada)
3:00 P.M – 3:15 P.M	1570573480	Data Mining in the NBA: An Applied Approach	Jordan Hewko, Robert Sullivan, Shaun Reiger and Mohamad El-Hajj (MacEwan University, Canada)
3:15 P.M – 3:30 P.M	1570584513	Multi-Objective Optimization for Size and Resilience of Spiking Neural Networks	Mihaela Dimovska (University of Minnesota, USA); Travis Johnston, Catherine Schuman, Parker Mitchell and Thomas Potok (Oak Ridge National Laboratory, USA)
3:30 P.M – 3:45 P.M	1570584628	Office Multi-Occupancy Detection Using BLE Beacons and Power Meters	Azkario Rizky (UGM, Indonesia); Alexander Lazovik (University of Groningen, The Netherlands); Marco Aiello (University of Stuttgart, Germany)

SESSION 11: IMAGE PROCESSING, MULTIMEDIA TECHNOLOGY AND OTHERS**SESSION CHAIR: SUDARSHAN S. CHAWATHE (UNIVERSITY OF MAINE, USA)****SESSION TIME: 2:00 P.M – 3:45 P.M****VENUE: Seminar Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570563204	Change Detection Using Original and Fused Landsat and Worldview Images	Chiman Kwan (Signal Processing, Inc., USA); Jerry Yang and Bryan Chou (Applied Research LLC, USA)
2:15 P.M – 2:30 P.M	1570561494	Vulnerability Analysis and Modeling	Mikeera Brown, Michael Joseph and Shawnoah Pollock (University of Bridgeport, USA); Khaled M. Elleithy (School of Engineering, University of Bridgeport, USA); Wafa Elmannai (Manhattan College, USA)
2:30 P.M – 2:45 P.M	1570575762	The Design of Digital IIR Filters Using a Differential Evolution Optimization Algorithm with Taguchi Crossover	Peter Stubberud (UNLV, USA)
2:45 P.M – 3:00 P.M	1570571329	Multiple Human Objects Tracking and Classification Directly in Compressive Measurement Domain for Long Range Infrared Videos	Chiman Kwan (Signal Processing, Inc., USA); David Gribben (Applied Research LLC, USA); Trac D. Tran (Johns Hopkins University, USA)
3:00 P.M – 3:15 P.M	1570566582	Quality Model for Testing Augmented Reality Applications	Jim A Scheibmeir and Yashwant Malaiya (Colorado State University, USA)
3:15 P.M – 3:30 P.M	1570565495	A New Quantum Processor Architecture	Michael Joseph (University of Bridgeport, USA); Khaled M. Elleithy (School of Engineering, University of Bridgeport, USA); Mohamed Mohamed (Bridgeport, USA)
3:30 P.M – 3:45 P.M	1570571328	Tracking and Classification of Multiple Human Objects Directly in Compressive Measurement Domain for Low Quality Optical Videos	Chiman Kwan (Signal Processing, Inc., USA); David Gribben (Applied Research LLC, USA); Trac D. Tran (Johns Hopkins University, USA)

SESSION 12: ARTIFICIAL INTELLIGENCE AND ELECTRONIC INSTRUMENTATION**SESSION CHAIR: PHILLIP G. BRADFORD (UNIVERSITY OF CONNECTICUT, USA)****SESSION TIME: 2:00 P.M – 3:45 P.M****VENUE: Seminar Room 4**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570584632	Activity Monitoring System to Support Elderly Independent Living	Douglas E Dow, Jarrett Knox, Anthony Sousa and Eric Pereira (Wentworth Institute of Technology, USA)
2:15 P.M – 2:30 P.M	1570585797	Time Series Modeling of Storm Outages with Weather Mesonet Data for Emergency Preparedness and Response	Kingsley Udeh, David W. Wanik and Emmanouil Anagnostou (University of Connecticut, USA); Nick Bassill (NYS Mesonet, USA)
2:30 P.M – 2:45 P.M	1570565587	Micro-Doppler Radar Measurement of Sit-to-Stand-to-Sit Movement for Evaluation of High-level Instrumental Activities of Daily Living	Kenshi Saho (Toyama Prefectural University, Japan); Kazuki Uemura (Toyama Prefectural University, Japan); Masahiro Fujimoto (National Institute of Advanced Industrial Science and Technology, Japan); Michito Matsumoto (Toyama College of Welfare Science, Japan)
2:45 P.M – 3:00 P.M	1570586522	3D Object Detection Based on LiDAR Data	Ramin Sahba and Amin Sahba (The University of Texas at San Antonio, USA)
3:00 P.M – 3:15 P.M	1570588627	FBAD: Fog-based Attack Detection for IoT Healthcare in Smart Cities	Ibrahim Alrashdi, Ali Alqazzaz, Raed Alharthi, Esam Aloufi, Mohamed Zohdy and Hua Ming (Oakland University, USA)
3:15 P.M – 3:30 P.M	1570570957	Battery Charging Application Thorough PVA and MPPT Controller with Voltage Regulation	Zuhair Alqarni (Western Michigan University, USA); Johnson A. Asumadu (WMU, USA)
3:30 P.M – 3:45 P.M	1570574927	Electroencephalographic (EEG) Analysis of Individuals Experiencing Acute Mental Stress	Matthew Regueiro (California State University, Fullerton, USA); Bhagyashree Shirke (California State University Fullerton, USA); Mandy Chiu (CSUF & College of Engineering, USA); Nicholas Capobianco (California State University Fullerton, USA); Kiran George (California State University, Fullerton, USA)

TIME	EVENT	VENUE
3:45 P.M – 4:15 P.M	Coffee Break	Presidential Ballroom

SESSION 13: BLOCKCHAIN, ARTIFICIAL INTELLIGENCE AND BIG DATA ANALYTICS

SESSION CHAIR: SANDUN S KURUPPU (SAGINAW VALLEY STATE UNIVERSITY, USA)

SESSION TIME: 4:15 P.M – 6:00 P.M

VENUE: Seminar Room 3

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570584789	Using Historical Data to Predict Parking Occupancy	Sudarshan S Chawathe (University of Maine, USA)
4:30 P.M – 4:45 P.M	1570574838	Consortium Blockchain-Based Architecture for Cyber-attack Signatures and Features Distribution	Oluwaseyi Ajayi (City College of New York, USA); Obinna Igbe (City University of New York, USA); Tarek Saadawi (The City University of New York/The City College, USA)
4:45 P.M – 5:00 P.M	1570576312	Scaling Blockchains to Support Electronic Health Records for Hospital Systems	Alyssa Donawa (University of Kentucky, USA); Inema Orukari (Washington University in St. Louis, USA); Corey E Baker (University of Kentucky, USA)
5:00 P.M – 5:15 P.M	1570578361	Residual Capsule Network	Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA); Sree Bala Bhamidi (Purdue School of Engineering and Technology, IUPUI, USA)
5:15 P.M – 5:30 P.M	1570561883	An Algorithmic Solution for the Hair Ball Problem in Data Visualization	Khalid Alnafisah (Louisiana State University, USA)
5:30 P.M – 5:45 P.M	1570576231	ACO-based Distributed Energy Routing Protocol in Smart Grid	Sara Hebal (University of Ferhat Abbas Setif 1, Algeria); Djamila Mechta (Université Ferhat ABBAS de Sétif, Algeria); Saad Harous (UAE University, United Arab Emirates)
5:45 P.M – 6:00 P.M	1570584598	Unformatted, Certified Scientific Objects	Mark E Royer and Sudarshan S Chawathe (University of Maine, USA)

SESSION 14: ELECTRONIC INSTRUMENTATION AND WIRELESS NETWORKS
SESSION CHAIR: PHILLIP G. BRADFORD (UNIVERSITY OF CONNECTICUT, USA)

SESSION TIME: 4:15 P.M – 6:00 P.M

VENUE: Seminar Room 4

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570584622	Automated Well Water Contamination Tester and Web Service	Douglas E Dow, Brody Nagy and Sean Demers (Wentworth Institute of Technology, USA)
4:30 P.M – 4:45 P.M	1570584547	Smart Phone Based Mobile Code Dissemination for Heterogeneous Wireless Sensor Networks	Omor Faruk and Xiaoyang ZHong (IUPUI, USA); Yao Liang (Indiana University-Purdue University Indianapolis, USA); Xu Liang (University of Pittsburgh, USA)
4:45 P.M – 5:00 P.M	1570584359	EEG-Based Biometrics Utilizing Image Recognition for Patient Identification	Kiran George (California State University, Fullerton, USA); Bhagyashree Shirke (California State University Fullerton, USA)
5:00 P.M – 5:15 P.M	1570584895	Tabletop Human Computer Interface to Assist Elderly with Tasks of Daily Living	Douglas E Dow, Miguel Villegas, Juan TorresMunoz and Abdulham Alrishdi (Wentworth Institute of Technology, USA)
5:15 P.M – 5:30 P.M	1570579400	Integration of UAVs with Real Time Operating Systems Using UAVCAN	Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA); Niranjan Ravi (Purdue School of Engineering and Technology, IUPUI, USA)
5:30 P.M – 5:45 P.M	1570584910	Winter Cabin Water Tap Monitor and Release System to Reduce Risk of Freezing	Douglas E Dow, Paul Kaprielian, Thach Pham, Alex Young, Scott Grenquist and Bruce Decker (Wentworth Institute of Technology, USA)
5:45 P.M – 6:00 P.M	1570584565	Towards Better Management of Combined Sewage Systems	Gregg Vesonder, Christina Berke, Jack Li and Elizabeth Fassman-Beck (Stevens Institute of Technology, USA)

SESSION 15

TIME	EVENT	VENUE
4:15 P.M – 6:00 P.M	Tutorial on Securing Access to E-Healthcare Data for protecting Privacy By Sarmistha Neogy Lahiri (Jadavpur University, India)	Seminar Room 1
4:15 P.M – 6:00 P.M	Workshop on Data Analytics	Seminar Room 2

DAY: 3**12th October, 2019**

TIME	NAME OF THE EVENT	VENUE
8:00 A.M – 8:30 A.M	REGISTRATION	PRESIDENTIAL RECEPTION AREA
8:30 A.M – 9:00 A.M	BREAKFAST	PRESIDENTIAL BALLROOM
9:00 A.M – 9:45 A.M	KEYNOTE ADDRESS BY LYLE UNGAR (UNIVERSITY OF PENNSYLVANIA, USA) TITLE OF TALK: MEASURING WELL-BEING USING SOCIAL MEDIA	PRESIDENTIAL BALLROOM
9:45 A.M – 10:30 A.M	KEYNOTE ADDRESS BY AMY GREENWALD (BROWN UNIVERSITY, USA) TITLE OF TALK: LEARNING EQUILIBRIA IN SIMULATION-BASED GAMES ... AND THE ENSUING EMPIRICAL DESIGN OF MECHANISMS	PRESIDENTIAL BALLROOM
10:30 A.M – 11:15 A.M	KEYNOTE ADDRESS BY HOSSAM FATTAH (MICROSOFT CORPORATION, USA) TITLE OF TALK: TRAFFIC MONITORING IN MICROSOFT AZURE CLOUD	PRESIDENTIAL BALLROOM
11:15 A.M – 11:30 A.M	COFFEE BREAK	PRESIDENTIAL BALLROOM

PARALLEL SESSIONS

SESSION 16: AD HOC NETWORKS, IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY

SESSION CHAIR: DAWEI LI (MONTCLAIR STATE UNIVERSITY, USA)

SESSION TIME: 11:30 A.M – 1:00 P.M

VENUE: Seminar Room 2

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 A.M – 11:45 A.M	1570558642	Segmentation of Skin Lesion Using Harris Corner Detection and Region Growing	Izbaila Imtiaz (Institute of Management Sciences (IMSciences), Pakistan); Imran Ahmed (Institute of Management Sciences Hayatabad, Peshawar-Pakistan, Pakistan); Misbah Ahmad and Kaleem Ullah (Institute of Management Sciences, Pakistan); Awais Adnan (Institute of Management Sciences Peshawar Pakistan & Sity University Peshawar, Pakistan); Maaz Ahmad (Institute of Management Sciences Peshawar, Pakistan)
11:45 A.M – 12:00 P.M	1570584254	Comparitive Analysis of Stereo Matching Algorithms	Ashish Patel (Charotar University Of Science & Technology & Associate Member of the Institution of Engineers, India); Anil Patel (Spicom Electronics Pvt. Ltd, India)
12:00 P.M – 12:15 P.M	1570576330	Overhead View Person Detection Using YOLO	Misbah Ahmad (Institute of Management Sciences, Pakistan); Imran Ahmed (Institute of Management Sciences Hayatabad, Peshawar-Pakistan, Pakistan); Awais Adnan (Institute of Management Sciences Peshawar Pakistan & Sity University Peshawar, Pakistan)
12:15 P.M – 12:30 P.M	1570584562	Designing and Analysis of IEEE 802.11 MAC for UAVs Ad Hoc Networks	A. F. M. Shahen Shah, Haci Ilhan and Ufuk Tureli (Yildiz Technical University, Turkey)
12:30 P.M – 12:45 P.M	1570586428	A Hierarchical P2P Overlay for Hierarchical Mobile Ad Hoc Networks (MANETs)	Walid Abdel Gelil and Thomas Kunz (Carleton University, Canada)
12:45 P.M – 1:00 P.M	1570584568	Performance of the CR-MAC with Channel Fading and Capture Effect Under Practical Traffic Scenarios for	Muhammet Ali Karabulut, A. F. M. Shahen Shah and Haci Ilhan (Yildiz Technical University, Turkey)

SESSION 17: ELECTRONIC INSTRUMENTATION AND SECURITY**SESSION CHAIR: SHAHAB TAYEB (CALIFORNIA STATE UNIVERSITY FRESNO, USA)****SESSION TIME: 11:30 A.M – 1:00 P.M****VENUE: Seminar Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 A.M – 11:45 A.M	1570575746	Assurance for CyberSecurity with Assume-Guarantee Reasoning	Siddhartha Bhattacharyya, Ali Alfageeh and Milankumar Patel (Florida Institute of Technology, USA); Samuel Perl (Carnegie Mellon University & Software Engineering Institute, USA)
11:45 A.M – 12:00 P.M	1570576093	Data Augmentation with Generative Models for Improved Malware Detection: A Comparative Study	Roland L Burks (Samford University, USA); Kazi Aminul Islam, Yan Lu and Jiang Li (Old Dominion University, USA)
12:00 P.M – 12:15 P.M	1570576287	An Effective Approach to Classify Abnormal Network Traffic Activities Using Wavelet Transform	Soo-Yeon Ji (Bowie State University, USA); Charles A Kamhoua (US Army Research Laboratory & Network Science Division, USA); Nandi Leslie (US Army Research Laboratory, USA); Dong Jeong (University of the District of Columbia, USA)
12:15 P.M – 12:30 P.M	1570576318	AECC: An Enhanced Public Key Cryptosystem for User Defined Messages	Shajina Anand (The College of New Jersey, USA); Gunasekaran Raja and Aishwarya Ganapathisubramaniyan (Anna University, India)
12:30 P.M – 12:45 P.M	1570576374	An Efficient Security Scheme for the Internet of Things with Resource-Constrained Devices	Xin-Wen Wu, Waleed Farag and Sanwar Ali (Indiana University of Pennsylvania, USA); Siddhivinayak Kulkarni (Griffith University, Australia)
12:45 P.M – 1:00 P.M	1570575372	Distributed Image Encryption Based on a Homomorphic Cryptographic Approach	Mamadou I Wade (Howard University, USA)

SESSION 18: CRYPTOGRAPHY AND NETWORK SECURITY**SESSION CHAIR: THAIER HAYAJNEH (FORDHAM UNIVERSITY, USA)****SESSION TIME: 11:30 A.M – 1:00 P.M****VENUE: Seminar Room 4**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 A.M – 11:45 A.M	1570575112	CSAT: A User-interactive Cyber Security Architecture Tool Based on NIST-compliance Security Controls for Risk Management	Yi Huang (Infobeyond Technology LLC, USA); Michaela Iorga (NIST, USA); Anup Kumar (University Of Louisville, USA); Bin Xie (InfoBeyond Technology LLC, USA); Jayanta Debnath (University of Toledo, USA)
11:45 A.M – 12:00 P.M	1570575183	Formulating Support for Superpages to Reduce the Number of TLB Faults in Contiguous Virtual Memory Space	Avimita Chatterjee (University of Colorado Boulder, USA)
12:00 P.M – 12:15 P.M	1570564933	Identification of Critical-Attacks Set in an Attack-Graph	Alaa AL Ghazo (Iowa State University, USA)
12:15 P.M – 12:30 P.M	1570561681	Maximum Diversity in Web Application User Action Privacy	Rajiv Bagai, Seth Layton, Srikanth Gampa and Kavitha Chandrashekar (Wichita State University, USA)
12:30 P.M – 12:45 P.M	1570564876	On the Efficacy of Using Android Debugging Bridge for Android Device Forensics	Chuck Easttom and Willie Sanders (Capitol Technology University, USA)
12:45 P.M – 1:00 P.M	1570584567	PDFPhantom: Exploiting PDF Attacks Against Academic Conferences' Paper Submission Process with Counterattack	Dat T Tran and Chetan Jaiswal (Truman State University, USA)

SESSION 19: TELECOMMUNICATION SYSTEM, WIRELESS NETWORKS AND CLOUD COMPUTING**SESSION CHAIR: SON VUONG (UNIVERSITY OF BRITISH COLUMBIA, CANADA)****SESSION TIME: 11:30 A.M – 1:00 P.M****VENUE: Presidential Room 1**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORSWITH AFFILIATION & COUNTRY
11:30 A.M – 11:45 A.M	1570588612	Dual-Beam Analog Beamforming for mmWave Communications	A. Jaesim (University of Mount Union & University of South Florida, USA); Nazli Siasi (University of South Florida, USA); Adel Aldalbahi (King Faisal University, Saudi Arabia); Diogo Oliveira (Florida State University, USA); Nasir Ghani (University of South Florida, USA)
11:45 A.M – 12:00 P.M	1570588626	An Approach to Optimize Device Power Performance Towards Energy Efficient Next Generation 5G Networks	Anurag Thantharate (University of Missouri Kansas City, USA); Cory Beard (University of Missouri-Kansas City, USA); Sreekar Marupaduga (IEEE, USA)
12:00 P.M – 12:15 P.M	1570576371	A Physical Strength Measurement and Analysis System for Elderly People Using Motion Sensors	Akira Kawai, Shinichi Taniguchi, Shizue Izumi and Hui Li LI (Shiga University, Japan)
12:15 P.M – 12:30 P.M	1570586459	A Deep Learning Approach Towards an Efficient and Reliable Network Slicing in 5G Networks	Anurag Thantharate (University of Missouri Kansas City, USA); Rahul Paropkari (University of Missouri-Kansas City, USA); Vijay Walunj (University of Missouri Kansas City, USA); Cory Beard (University of Missouri-Kansas City, USA)
12:30 P.M – 12:45 P.M	1570566390	A Distributed Weight-Based TDMA Scheduling Algorithm for Latency Improvement in IoT	Mohamed Sofiane Batta (University of Ferhat Abbas Setif 1, Algeria); Zibouda Aliouat (University Ferhat Abbas Setif 1 Elbez, Algeria); Saad Harous (UAE University, United Arab Emirates)
12:45 P.M – 1:00 P.M	1570576385	NetDevOps: A New Era Towards Networking & DevOps	Jay A Shah and Dushyant N Dubaria (Southern Methodist University, USA)

SESSION 20: ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND EVOLUTIONARY ALGORITHM**SESSION CHAIR: DAMIAN VALLES (TEXAS STATE UNIVERSITY, USA)****SESSION TIME: 11:30 A.M – 1:00 P.M****VENUE: Presidential Room 2**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 A.M – 11:45 A.M	1570570922	Voice Interactive Games	James Piotrowski (University of Nevada Las Vegas, USA); Quentin Cornu and Antoine Campagna (University of Nevada Las Vegas, France); Evangelos Yfantis (University of Nevada, Las Vegas, USA)
11:45 A.M – 12:00 P.M	1570576025	Automated System for Cervical Abnormality Detection Using Machine Learning	Ashutosh Kanitkar, Rutwik Kulkarni, Varun Joshi and Yash Karwa (Pune Institute of Computer Technology, India); Sanjyot Gindi (Periwinkle Technologies Pvt. Ltd., India); Geetanjali Kale (Pune Institute of Computer Technology, India)
12:00 P.M – 12:15 P.M	1570584880	Stability Improvement of Power Networks Using Cluster Based Dynamic Excitation of AVR	Brook Abegaz (Loyola University of Chicago, USA)
12:15 P.M – 12:30 P.M	1570566277	Conceptual Neuroadaptive Brain-Computer Interface Utilizing Event-related Desynchronization	Brian Luu (California State University, Fullerton, USA); Bradley Hansberger (California State University Fullerton, USA); Thanat Tothong and Kiran George (California State University, Fullerton, USA)
12:30 P.M – 12:45 P.M	1570576304	An Efficient Heuristic for the Vacation Planning Problem	Charalampos Konstantopoulos (University of Piraeus, Greece); Damianos Gavalas (University of the Aegean, Greece); Grammati Pantziou (University of West Attica & Computer Technology Institute and Press Diophantus, Greece); Nikolaos Vathis (National Technical University of Athens, Greece)
12:45 P.M – 1:00 P.M	1570584882	Security Evaluation of Cyber Power Networks Using an Expert System-on-Chip	Brook Abegaz (Loyola University of Chicago, USA)

SESSION 21: ROBOTICS, AUTONOMOUS SYSTEM, AND CONTROL THEORY**SESSION CHAIR: PETER STUBBERUD (UNIVERSITY OF NEVADA LAS VEGAS, USA)****SESSION TIME: 11:30 A.M – 12:45 P.M****VENUE: Presidential Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:45 A.M – 12:00 P.M	1570566300	Synchronization of Fractional-Order Complex Chaotic System Using Active Control Method	Chuanhong Du (University of ANSHUN, P.R. China); Licai Liu (University of ANSHUN, USA); Shuaishuai Shi (Guizhou University of Engineering Science, P.R. China)
12:00 P.M – 12:15 P.M	1570571370	Design and Implementation of an Indoor Ambient Noise Monitoring System with Localization	Hyuntae Cho (Center for Integrated Smart Sensors, Korea); Junho Son (Samsung Electronics, Korea)
12:15 P.M – 12:30 P.M	1570586099	Congestion Control and Traffic Management in Wireless Sensor Networks	Mohammad M. Kadhum (Algonquin College & Queen's University, Canada); Nur Nazmah Mat Zin (IEEE, Malaysia)
12:30 P.M – 12:45 P.M	1570563183	Facing the Music: Performance Implications of Working with Music in the Background	Claudiu Moise (Northeastern Illinois University, USA)
12:45 P.M – 1:00 P.M	1570575378	Feedback Motion Plan Verification for Vehicles with Bounded Curvature Constraints	Giovanni Miraglia and Loyd Hook, IV (University of Tulsa, USA)

TIME	NAME OF THE EVENT	VENUE
11:30 A.M – 3:45 P.M	Smart Maker Fair	Seminar Room 1
11:30 A.M – 3:45 P.M	Smart Maker Fair	Seminar Hall Reception

TIME	EVENT	VENUE
1:00 P.M – 2:00 P.M	Lunch	Presidential Ballroom

SESSION 22: WIRELESS NETWORK, IOT AND TELECOMMUCATION

SESSION CHAIR: DAWEI LI (MONTCLAIR STATE UNIVERSITY, USA)

SESSION TIME: 2:00 P.M – 3:45 P.M

VENUE: Seminar Room 2

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORSWITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570584331	Smart Energy Efficiency for a Sustainable World	John Lamb (Pace University, USA); Nina Godbole (Healthcare Researcher, India)
2:15 P.M – 2:30 P.M	1570591375	Study on the Nano-scaled Molecules Used in Treatment for Melanoma Using Bio-chemical and Computational Analysis	Yuna Lee (KIS Korea Int'l School, Seoul, Korea); Amanda Kyung (NVRHS, USA); Ho Jeong Kwon (NYU, NY, USA)
2:30 P.M – 2:45 P.M	1570591924	GSM Based Irrigation System	Arjun Dutta (Institute of Engineering and Management Kolkata & Member of CSIR, India)
2:45 P.M – 3:00 P.M	1570575134	Incentives Don't Solve Blockchain's Problems	Shea Ketsdever and Michael J Fischer (Yale University, USA)
3:00 P.M – 3:15 P.M	1570565655	Airborne-Relay-based Algorithm for Locating Crashed UAVs in GPS-Denied Environments	Jae Sung Lim and Donghan Oh (Ajou University, Korea); Jongkwan Lee (Korea Military Academy, Korea); Hoki Baek (Ajou University, Korea)
3:15 P.M – 3:30 P.M	1570573184	On Approximation of Gaussian Q-Function and Its Applications	Arash Abbasi (Dakota State University, USA); Parnian Abbasi ShirinAbadi (BuAli Sina University, Iran)
3:30 P.M – 3:45 P.M	1570576293	Evaluation of a Realistic Example of Information-Centric Network Metadata Management	Tomoki Ito (Nagoya University, Japan); Hirofumi Noguchi (Nippon Telegraph and Telephone Corporation, Japan); Misao Kataoka (NTT, Japan); Takuma Isoda (Nippon Telegraph and Telephone Corporation, Japan); Yoji Yamato (NTT Corporation, Japan); Tutomu Murase (Nagoya University, Japan)

SESSION 23: ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND SECURITY AND OTHERS**SESSION CHAIR: SHAHAB TAYEB (CALIFORNIA STATE UNIVERSITY FRESNO, USA)****SESSION TIME: 2:00 P.M – 3:45 P.M****VENUE: Seminar Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORSWITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570579444	A Fast and Secure Pipelined Barrel Processor for Safety-Critical Applications for Real-Time Operating Systems	Mong Sim and Darshika G Perera (University of Colorado Colorado Springs, USA)
2:15 P.M – 2:30 P.M	1570562552	Smart Card Based Remote User Authentication Scheme for Cloud Computing	R 'Madhusudhan (National Institute of Technology Karnataka, India); Manjunath Hegde (Manipal Institute of Technology, Manipal Academy of Higher Education)
2:30 P.M – 2:45 P.M	1570567047	A Condition Monitoring System for the Analysis of Bearing Distributed Faults	Ansar Ali (GPS Shahbaz pur, Pakistan); Muhammad Irfan (Najran University Saudi Arabia, Saudi Arabia)
2:45 P.M – 3:00 P.M	1570571985	Activity Learning for Intelligent Buildings	Ilche Georgievski, Prashant Gupta and Marco Aiello (University of Stuttgart, Germany)
3:00 P.M – 3:15 P.M	1570591962	Business Intelligence Solution for Bikers Haven Restaurant	Marylif. Rosas (DeLaSalle University- Dasmariñas, Philippines); Ramnhell Pedrajita Alday (DeLaSalle University- Dasmariñas, Philippines)
3:15 P.M – 3:30 P.M	1570577248	Music Streaming Service Prediction with MapReduce Based Artificial Neural Network	Min Chen (State University of New York - New Paltz, USA)
3:30 P.M – 3:45 P.M	1570584609	A Low-Cost Arm Robotic Platform Based on Myoelectric Control for Rehabilitation Engineering	Andres F Ruiz-Olaya (Universidad Antonio Nariño, Colombia)

SESSION 24: WIRELESS NETWORKS AND MOBILE COMPUTING**SESSION CHAIR: THAIER HAYAJNEH (FORDHAM UNIVERSITY, USA)****SESSION TIME: 2:00 P.M – 3:30 P.M****VENUE: Seminar Room 4**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570549788	Coverage and Routing Hole Detection in Cyber-physical Network Paradigm	Anju Arya (Deenbandhu Chhotu Ram University of Science & Technology, India); Amita Rani (Deenbandhu Chhotu Ram University of Science and Technology, India); Sanjay Kumar (SRM University Delhi-NCR, India)
2:15 P.M – 2:30 P.M	1570564553	Performance Study of Detectability of RFID System with Varying Atmospheric Conditions	Hemant Purohit (Jodhpur Institute of Engineering & Technology & JIET, Jodhpur, India); Shilpa Choudhary (GL Bajaj Institute of Technology and Management, India)
2:30 P.M – 2:45 P.M	1570575494	Formal Trust Architecture for Assuring Trusted Interactions in the Internet of Things	Milankumar Patel, Siddhartha Bhattacharyya and Ali Alfageeh (Florida Institute of Technology, USA)
2:45 P.M – 3:00 P.M	1570576184	Constant Size CP-ABE with Scalable Revocation for Resource-Constrained IoT Devices	Divyashikha Sethia, Anadi Shakya, Ritik Aggarwal and Saksham Bhayana (Delhi Technological University, India)
3:00 P.M – 3:15 P.M	1570574807	On the Influence of Delay Spread in TDL and CDL Channel Models for Downlink 5G MIMO Systems	Gordana Raluca Barb (Politehnica University of Timisoara, Romania); Marius Ottesteanu (Universitatea Politehnica Timisoara, Romania)
3:30 P.M – 3:45 P.M	1570558169	Channel Redundancy Analysis and Bandwidth Utilization in GSM Mobile Communication Network of Uganda	Hemant Purohit (Jodhpur Institute of Engineering & Technology & JIET, Jodhpur, India)

SESSION 25: ENCODING TECHNOLOGY, MOBILE COMPUTING AND IOT**SESSION CHAIR: MAMADOU I WADE (HOWARD UNIVERSITY, USA)****SESSION TIME: 2:00 P.M – 3:30 P.M****VENUE: Presidential Room 1**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:30 P.M – 2:45 P.M	1570576355	A Comprehensive Experimental Evaluation of Radio Irregularity in BLE Networks	Ali Nikoukar and Mesut Günes (Otto von Guericke University Magdeburg, Germany); Behnam Dezfouli (Santa Clara University, USA); Seyedehyalda AkbarzadehandMansourAbboud(OttovonGuericke University Magdeburg, Germany)
2:45 P.M – 3:00 P.M	1570587569	The Effect of Cognitive Load on Gesture Acceptability of Older Adults in Mobile Application	Afshan Ejaz (Institute of Business Administration Pakistan Karachi, Pakistan); Shakeel Khoja (Institute of Business Administration (IBA) Karachi, Pakistan)
3:00 P.M – 3:15 P.M	1570591968	Study on Unemployment Rate in USA Using Computational and Statistical Methods	Andrew Kyung (CRG-NJ, USA); Steve Nam (Phillips Academy Andover, MA, USA)
3:15 P.M – 3:30 P.M	1570575956	An Architectural Schema for Performance Prediction Using Machine Learning in the Fog-to-Cloud Paradigm	Souvik Sengupta (Universitat Politcnica de Catalunya & CRAAX, Spain); Jordi Garcia (UPC BarcelonaTech (CRAAX), Spain); Xavier Masip-Bruin (Universitat Politècnica de Catalunya (UPC) & Advanced Network Architectures Lab (CRAAX), Spain); Andres Prieto (UPC BarcelonaTech (CRAAX), Spain)
3:30 P.M – 3:45 P.M	1570591243	Analysis of Trend in Traffic Flow Using Computational and Statistical Approaches	Richard Kyung (CRG-NJ, USA); Louis Sungwoo Cho (Asia Pacific International School, NJ, USA)

SESSION 26: TELECOMMUNICATION SYSTEMS AND NETWORK SECURITY**SESSION CHAIR: DAMIAN VALLES (TEXAS STATE UNIVERSITY, USA)****SESSION TIME: 2:00 P.M – 3:45 P.M****VENUE: Presidential Room 2**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570576125	Performance Analysis for Nonlinear MU-OFDM-DCSK Communication Systems	ChenboWang, Liang Hao, BaojiWang and JianhuaZhang (Peking University, P.R. China); Yiming Lei (School of EECS, Peking University, P.R. China)
2:15 P.M – 2:30 P.M	1570564880	SecML: A Proposed Modeling Language for CyberSecurity	Chuck Easttom (Capitol Technology University, USA)
2:30 P.M – 2:45 P.M	1570576090	A Matching Game Solution for Optimal RAT Selection in 5G Multi-RAT HetNets	Mahmoud Elmesalawy (Faculty of Engineering, Helwan University, Egypt); Mohamed G. Anany (Canadian International College, Egypt); Eman Serag (National Telecommunication Institute, Egypt)
2:45 P.M – 3:00 P.M	1570584530	Efficient Feature Selection for Intrusion Detection Systems	S. SarehAhmadi, Sherif S. Rashad and Heba Elgazzar (Morehead State University, USA)
3:00 P.M – 3:15 P.M	1570576091	Optimal Deployment of Heterogeneous Wireless Nodes in Integrated LTE/Wi-Fi Networks	Mahmoud Elmesalawy (Faculty of Engineering, Helwan University, Egypt); Noha Elmosilhy (Canadian International College, Egypt); Ahmed M. Abd El-Haleem (Helwan University, Egypt)
3:15 P.M – 3:30 P.M	1570576145	Ergodic Rate Performance in Nonlinear Omnidirectional Coding MIMO-OFDM Systems	YuyangDu, LiangHao, ZhaohuiLiu and YingyangChen (Peking University, P.R. China); Yiming Lei (School of EECS, Peking University, P.R. China)
3:30 P.M – 3:45 P.M	1570584218	Dynamic Beam Management for NR Using Adaptive Antenna Array	Aditi Rakesh Singh (Indian Institute of Technology, Kharagpur, India)

SESSION 27: AD HOC NETWORK AND ARTIFICIAL INTELLIGENCE**SESSION CHAIR: APARNA VARDE (MONTCLAIR STATE UNIVERSITY, USA)****SESSION TIME: 2:00 P.M – 3:30 P.M****VENUE: Presidential Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:00 P.M – 2:15 P.M	1570584561	Towards a Threat Model for Vehicular Fog Computing	Mohammad Aminul Hoque and Ragib Hasan (University of Alabama at Birmingham, USA)
2:45 P.M – 3:00 P.M	1570572079	UWB Channel Classification Using Convolutional Neural Networks	Arash Abbasi (Dakota State University, USA); Parnian Abbasi ShirinAbadi (BuAli Sina University, Iran)
3:00 P.M – 3:15 P.M	1570584608	Suicide Prediction Analysis with Generalized Addictive Model	Jun Shen and Shihui Zhao (University of Toronto, Canada); Mingzi Ye (Southern Methodist University, USA)
3:15 P.M – 3:30 P.M	1570575348	Mirage: A Protocol for Decentralized and Secured Communication of IoT Devices	Gunasekaran Raja (Anna University, India); Shajina Anand (The College of New Jersey, USA); Gokul Anand M (Anna University, India); Sajjad Hussain Chaudhary (University of Jeddah, Saudi Arabia); Ali Kashif Bashir (Manchester Metropolitan University, United Kingdom (Great Britain))
3:30 P.M – 3:45 P.M	1570584529	A Deep Neural Network Approach for Top View People Detection and Counting	Misbah Ahmad (Institute of Management Sciences, Pakistan); Imran Ahmed (Institute of Management Sciences Hayatabad, Peshawar-Pakistan, Pakistan); Kaleem Ullah (Institute of Management Sciences, Pakistan); Maaz Ahmad (Institute of Management Sciences Peshawar, Pakistan)

TIME	EVENT	VENUE
3:45 P.M – 4:15 P.M	Coffee Break	Presidential Ballroom

SESSION 28: IMAGE PROCESSING, ARTIFICIAL INTELLIGENCE AND OTHERS

SESSION CHAIR: APARNA VARDE (MONTCLAIR STATE UNIVERSITY, USA)

SESSION TIME: 4:15 P.M – 5:30 P.M

VENUE: Seminar Room 2

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570576337	Inter-UAV Collision Avoidance Using Deep-Q-Learning in Flocking Environment	Gunasekaran Raja (Anna University, India); Sudha Anbalagan (SRM University, India); Vikraman S, Srinivas J and Aishwarya Ganapathisubramaniyan (Anna University, India)
4:30 P.M – 4:45 P.M	1570575375	Probabilistic Sensor Design for Healthcare Technology	Jeroen Bergmann and Joseph Russell (University of Oxford, United Kingdom (Great Britain))
4:45 P.M – 5:00 P.M	1570576116	Interference Mitigation by Intelligent Channel Selection for Device-to-Device Communications	Anas Abdelhafez (AAST, Egypt); Hussein Elattar (AASTMT, Egypt); MohamedMohamedAbouEl-Dahab(ArabAcademyforScienceand Technology, Egypt)
5:15 P.M – 5:30 P.M	1570584564	Towards a Threat Model for Fog Computing	MdYasserKarimandRagibHasan(UniversityofAlabamamatBirmingham, USA)
5:30 P.M – 5:45 P.M	1570576227	A Misbehavior Authority System for Sybil Attack Detection in C-ITS	Joseph Kamel (IRT SystemX & Télécom ParisTech, France); Farah Haidar (Université Télécom Paristech, France); Arnaud Kaiser (Institut de Recherche Technologique SystemX, France); Ines Ben Jemaa (IRT-SystemX, France); Brigitte Lonc (Renault, France); Pascal Urien (Télécom ParisTech, France)

SESSION 29: ELECTRONIC POWER CONVERTER, FPGA, ARTIFICIAL INTELLIGENCE AND OTHERS**SESSION CHAIR: BROOK ABEGAZ (LOYOLA UNIVERSITY OF CHICAGO, USA)****SESSION TIME: 4:15 P.M – 5:45 P.M****VENUE: Seminar Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570576461	Study of Mm-Sized Coil to Coil Backscatter Based Communication Link	Xiao Sha (Stonybrook University, USA); Yasha Karimi and Petar M. Djurid (Stony Brook University, USA); Milutin Stanacevic (SUNY Stony Brook, USA); Samir R. Das (Stony Brook University, USA)
4:30 P.M – 4:45 P.M	1570584633	Low Power FPGA-SoC Design Techniques for CNN-based Object Detection Accelerator	Heekyung Kim and Ken Choi (Illinois Institute of Technology, USA)
5:00 P.M – 5:15 P.M	1570558536	Adaptive Compensation H_{∞} Filter with Convergence Criterion for SINS' Transfer Alignment	Weiwei Lyu and Xianghong Cheng (Southeast University, P.R. China); Jinling Wang (University of New South Wales, Australia)
5:15 P.M – 5:30 P.M	1570586422	A Survey of Applying Reinforcement Learning Techniques to Multicast Routing	Ola A. M. Mohammed (Carleton University, Ottawa, Canada); Marc St-Hilaire and Thomas Kunz (Carleton University, Canada); Maoyu Wang (Communications Research Centre, Canada)
5:30 P.M – 5:45 P.M	1570587188	Decoding Steady-State Visual Evoked Potentials from EEG Signals: Towards an EEG-Triggered FES System to Restore Hand Grasp Function	Andres F Ruiz-Olaya (Universidad Antonio Nariño, Colombia); Mauricio Antelis (Escuela de Ingeniería y Ciencias Tecnológico de Monterrey, Mexico); Alexander Cerquera (University of Florida, USA)
5:45 P.M – 6:00 P.M	1570593091	IoT Based Smart Security and Home Automation System	Subam Sarkar (University of Engineering And Management Kolkata, India); Sovik Sinha Chowdhury (IEM, India); Himadri Saha (Institute of Engineering & Management, India); Soujanya Syamal (IEM, India)

SESSION 30: VLSI AND MICROEMBEDDED CIRCUIT EMBEDDED SYSTEMS AND OTHERS**SESSION CHAIR: PETER STUBBERUD (UNIVERSITY OF NEVADA LAS VEGAS, USA)****SESSION TIME: 4:15 P.M – 6:00 P.M****VENUE: Seminar Room 4**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:15 P.M – 4:30 P.M	1570580454	A Multi-Phase Time-to-Digital Converter Differential Vernier Ring Oscillator	Amina Annagrebah (University of Lyon, France)
4:30 P.M – 4:45 P.M	1570584541	Thermal-Constrained, Energy-Aware Load Management on MPSoC Architectures	Dulana Rupanetti and Hassan Salamy (University of Saint Thomas, USA)
4:45 P.M – 5:00 P.M	1570586610	Low Power Design for DVFS Capable Software	Ali Manzak (University of Detroit Mercy, USA); Sadi Seker (Antalya Bilim University)
5:00 P.M – 5:15 P.M	1570584594	A Feedback Motion Plan for Vehicles with Bounded Curvature Constraints	Giovanni Miraglia and Loyd Hook, IV (University of Tulsa, USA)
5:15 P.M – 5:30 P.M	1570585172	Security Considerations for the Development of Secure Software Systems	Md L Ali, Maxwell Ruggieri and Tzu-Tang Hsu (Rider University, USA)
5:30 P.M – 5:45 P.M	1570584546	Applying Ad Hoc Technology in Inner City Communication	Ramin Sahba and Amin Sahba (The University of Texas at San Antonio, USA); Farshid Sahba (Raja University, Iran)
5:45 P.M – 6:00 P.M	1570580255	Estimation of the 2020 US Presidential Election Competition	Arthur Kim (Paul Math School & Geosan, South Korea, Korea); Peter Kim (High School, Korea)

SESSION 31: ELECTRONIC INSTRUMENTATIONS, WIRELESS SENSOR NETWORK AND OTHERS**SESSION CHAIR: MALAY GANGOPADHYAY (INSTITUTE OF ENGINEERING AND MANAGEMENT, INDIA)****SESSION TIME: 4:15 P.M – 4:30 P.M****VENUE: Presidential Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
4:45 P.M – 5:00 P.M	1570562248	Performance Analysis of Squarely Packed Polymorphic SWCNT Interconnect	Abu Bony Amin(Florida Polytechnic University, USA); Muhammad Sana Ullah(Florida Polytechnic University & University of Missouri-Kansas City, USA)

SESSION 32		
TIME	EVENT	VENUE
4:15 P.M – 6:00 P.M	Workshop on IoT- Concepts to Implementation	Presidential Ball Room 1
4:15 P.M – 6:00 P.M	Software as A Medical Device: A Tool to Navigate The (European) Regulations	Presidential Ball Room 2

SESSION 33: AD HOC NETWORK, ARTIFICIAL INTELLIGENCE AND IOT			
SESSION CHAIR: SANGHAMITRA PODDAR (INSTITUTE OF ENGINEERING AND MANAGEMENT, INDIA)			
SESSION TIME: 6:00 P.M – 6:15 P.M			
VENUE: Presidential Room 2			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
6:45 P.M – 7:00 P.M	1570582020	Multi-sensor Wearable for Child Safety	Ushashi Chowdhury (Institute of Engineering and Management, India)

SESSION 34: BLOCKCHAIN, WIRELESS SENSOR NETWORK AND OTHERS**SESSION CHAIR: AVIJIT BOSE (INSTITUTE OF ENGINEERING AND MANAGEMENT, INDIA)****SESSION TIME: 6:00 P.M – 6:15 P.M****VENUE: Presidential Room 3**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
6:30 P.M – 6:45 P.M	1570592349	Speed Controlling & Traffic Management System (SCTMS)	Aneesh Kar and Soujanya Syamal (IEM, India)

TIME	EVENT	VENUE
6:00 P.M - 9:00 P.M	Snacks and Smart PowerTalk Session	Presidential Room 1