



# IEEE CCWC 2021

**2021 IEEE 11th Annual Computing and Communication Workshop and Conference**

**VIRTUAL CONFERENCE**

**27<sup>th</sup> – 30<sup>th</sup> January 2021**

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

# TECHNICAL SCHEDULE

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DAY	EVENT DETAILS	TIMING	PAGE NUMBER
<b>DAY 1</b> <b>(27<sup>th</sup> January 2021)</b>	INAUGURAL SESSION	10.00 A.M – 10.45 A.M	6
	KEYNOTE 1: ROLE OF AI IN BUSINESS ENVIRONMENT OF NEW GENERATION	10:45 A.M – 11.30 A.M	6
	KEYNOTE 2: PLATO, DELPHI, AND AI	11.30 A.M - 12.15 P.M	6
	-----BREAK-----	12.15 P.M - 12.30 P.M	6
	SESSION 1 ALGORITHMS AND THEORY	12.30 P.M - 1.45 P.M	7
	SESSION 2 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	12.30 P.M - 1.45 P.M	8
	SESSION 3 ALGORITHMS AND THEORY	12.30 P.M - 1.45 P.M	9
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	SESSION 5 BIG DATA, DATA MANAGEMENT AND ANALYTICS	12.30 P.M - 1.45 P.M	11
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SESSION 10 BIG DATA, DATA MANAGEMENT AND ANALYTICS AND ARTIFICIAL INTELLIGENCE	2.00 P.M - 3.30 P.M	16	
SESSION 11 ALGORITHMS AND THEORY AND ARTIFICIAL INTELLIGENCE	2.00 P.M - 3.30 P.M	17	
SESSION 12 WIRELESS COMMUNICATIONS	2.00 P.M - 3.30 P.M	18	

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# TECHNICAL SCHEDULE

## CONTENT (contd..)

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
<b>DAY 2</b> <b>(28<sup>th</sup></b> <b>January</b> <b>2021)</b>	<b>KEYNOTE 3: NEXT GENERATION TESTING OF COGNITIVE STATUS</b>	<b>10.00 A.M – 10.45 A.M</b>	<b>19</b>
	<b>KEYNOTE 4: THE RELATIONAL AFFORDANCES OF PLATFORMS</b>	<b>10:45 A.M – 11.30 A.M</b>	<b>19</b>
	<b>KEYNOTE 5: PENROSE: FROM MATHEMATICAL NOTATION TO BEAUTIFUL DIAGRAMS</b>	<b>11.30 A.M - 12.15 P.M</b>	<b>19</b>
	<b>-----BREAK-----</b>	<b>12.15 P.M - 12.30 P.M</b>	<b>19</b>
	<b>SESSION 13   ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING AND ALGORITHM</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>20</b>
	<b>SESSION 14   CLOUD COMPUTING</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>21</b>
	<b>SESSION 15   CLOUD COMPUTING AND BIG DATA MANAGEMENT</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>22</b>
	<b>SESSION 16   ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>23</b>
	<b>SESSION 17   CLOUD COMPUTING AND DATA CENTER SYSTEMS</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>24</b>
	<b>SESSION 18   ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>25</b>
	<b>-----BREAK-----</b>	<b>1.45 P.M - 2.00 P.M</b>	<b>25</b>
	<b>SESSION 19   COMPUTER ARCHITECTURE , VLSI AND P2P COMPUTING</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>26</b>
	<b>SESSION 20   ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>27</b>
	<b>SESSION 21   COMPUTATIONAL INTELLIGENCE AND COMPUTER GRAPHICS</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>28</b>
	<b>SESSION 22   ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>29</b>
<b>SESSION 23   CRYPTOGRAPHY , SECURITY AND ROBOTICS</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>30</b>	
<b>SESSION 24   ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>31</b>	

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## TECHNICAL SCHEDULE

### CONTENT (contd..)

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
<b>DAY 3</b> <b>(29<sup>th</sup></b> <b>January</b> <b>2021)</b>	<b>KEYNOTE 6: FROM COMPUTATIONAL THINKING TO COMPUTATIONAL ACTION</b>	<b>10.00 A.M – 10.45 A.M</b>	<b>32</b>
	<b>KEYNOTE 7: AI, DESIGN, AND SOCIAL JUSTICE</b>	<b>10:45 A.M – 11.30 A.M</b>	<b>32</b>
	<b>KEYNOTE 8: BEYOND THE TECHNOLOGY: A SOCIOTECHNICAL VIEW OF MANAGING ONLINE BAD BEHAVIOR</b>	<b>11.30 A.M - 12.15 P.M</b>	<b>32</b>
	<b>-----BREAK-----</b>	<b>12.15 P.M - 12.30 P.M</b>	<b>32</b>
	<b>SESSION 25 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>33</b>
	<b>SESSION 26 SECURITY, TRUST AND PRIVACY</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>34</b>
	<b>SESSION 27 ROBOTICS AND HUMAN COMPUTER INTERACTION</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>35</b>
	<b>SESSION 28 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>36</b>
	<b>SESSION 29 SECURITY, TRUST, PRIVACY</b>	<b>12.30 P.M - 1.30 P.M</b>	<b>37</b>
	<b>SESSION 30 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING</b>	<b>12.30 P.M - 1.45 P.M</b>	<b>38</b>
	<b>-----BREAK-----</b>	<b>1.45 P.M - 2.00 P.M</b>	<b>38</b>
	<b>SESSION 31 SECURITY, TRUST AND PRIVACY</b>	<b>2.00 P.M - 3.00 P.M</b>	<b>39</b>
	<b>SESSION 32 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>40</b>
	<b>SESSION 33 SECURITY , ROBOTICS AND COMPUTER GRAPHICS</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>41</b>
	<b>SESSION 34 EMBEDDED SYSTEMS , GREEN COMPUTING AND LOGIC DESIGN</b>	<b>2.00 P.M - 3.30 P.M</b>	<b>42</b>
	<b>SESSION 35 MOBILE AND WIRELESS COMPUTING</b>	<b>2.00 P.M - 3.15 P.M</b>	<b>43</b>
<b>SESSION 36 WIRELESS COMMUNICATIONS</b>	<b>2.00 P.M - 3.15 P.M</b>	<b>44</b>	

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# TECHNICAL SCHEDULE

## CONTENT (contd..)

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
<b>Day 4</b>  <b>(30<sup>th</sup></b> <b>January</b> <b>2021)</b>	<b>KEYNOTE 9: WHO DO YOU TRUST? CUES TO DECEPTION AND TRUST IN TEXT AND SPEECH</b>	10.00 A.M – 10.45 A.M	45
	<b>KEYNOTE 10: HERE COMES EVEN MORE VIDEO DATA: HIGH FRAME RATES, COMPRESSION, AND VIDEO QUALITY</b>	10:45 A.M – 11.30 A.M	45
	<b>KEYNOTE 10: ON THE CONSTRUCTION AND USE OF TREE DECOMPOSITIONS</b>	11.30 A.M - 12.15 P.M	45
	-----BREAK-----	12.15 P.M - 12.30 P.M	45
	<b>SESSION 37 MOBILE AND WIRELESS COMPUTING AND BIOINFORMATICS</b>	12.30 P.M - 1.45 P.M	46
	<b>SESSION 38 ARTIFICIAL INTELLIGENCE AND MACHINE LAERNING</b>	12.30 P.M - 1.45 P.M	47
	<b>SESSION 39 PATTERN RECOGNITION AND SIGNAL PROCESSING</b>	12.30 P.M - 1.45 P.M	48
	<b>SESSION 40 CONTROL SYSTEMS AND APPLICATIONS</b>	12.30 P.M - 1.45 P.M	49
	<b>SESSION 41 PARALLEL ALGORITHM AND SOFTWARE ENGINEERING</b>	12.30 P.M - 1.45 P.M	50
	<b>SESSION 42 WIRELESS COMMUNICATION</b>	12.30 P.M - 1.45 P.M	51
	-----BREAK-----	1.45 P.M - 2.00 P.M	51
	<b>SESSION 43 SOFTWARE ENGINEERING AND COMMUNICATIONS SOFTWARE</b>	2.00 P.M - 3.15 P.M	52
	<b>SESSION 44 CONTROL SYSTEMS AND APPLICATIONS</b>	2.00 P.M - 3.30 P.M	53
	<b>SESSION 45 MOBILE AND WIRELESS COMPUTING</b>	2.00 P.M - 3.30 P.M	54
	<b>SESSION 46 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>	2.00 P.M - 3.30 P.M	55
	<b>SESSION 47 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, CONTROL THEORY</b>	2.00 P.M - 3.30 P.M	56
	<b>SESSION 48 QUANTUM COMPUTING, HCI AND OPTICAL NETWORKS</b>	2.00 P.M - 3.30 P.M	57
<b>WORKSHOP</b>	12:30 PM – 3:30 PM	58	
<b>AWARD GIVING CEREMONY</b>	3.45 P.M – 4.00 P.M	58	

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**DAY 1:****27<sup>th</sup> January 2021**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	<b>PARTICIPATION LINK</b>
10.00 A.M – 10.45 A.M	INAUGURATION	
10:45 A.M – 11.30 A.M	KEYNOTE ADDRESS BY YURI BALASANOV (RESEARCH SOFTWARE INTERNATIONAL, INC., USA) TITLE OF TALK: ROLE OF AI IN BUSINESS ENVIRONMENT OF NEW GENERATION	
11.30 A.M - 12.15 P.M	KEYNOTE ADDRESS BY HOUMAN OWHADI ( PROFESSOR, CALIFORNIA INSTITUTE OF TECHNOLOGY, USA) TITLE OF TALK: PLATO, DELPHI, AND AI	

12.15 P.M - 12.30 P.M	<b>BREAK</b>
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## PARALLEL SESSIONS

### SESSION 1: ALGORITHMS AND THEORY

**SESSION CHAIR: ZIYA ARNAVUT (SUNY FREDONIA, USA)**

**SESSION TIME: 12.30 P.M - 1.45 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.30 P.M - 12.45 P.M	1570698753	Application of Spotted Hyena Optimizer in Cogeneration Power Plant on Single and Multiple-Objective	Somboon Sukpancharoen (Division of Mechatronics and Robotics Engineering, Rajamangala University of Technology Thanyaburi, Thailand)
12.45 P.M -1.00 P.M	1570693835	Removal of Wandering Baseline Artifact From Electrocardiogram Signals	Muhammad S. Ullah and Edder Mendoza (Florida Polytechnic University, USA)
1.00 P.M -1.15 P.M	1570694629	Applying HRV Based Online Clustering Method to Identify Driver Drowsiness	Mohsen Babaeian (CSU Long Beach, USA)
1.15 P.M -1.30 P.M	1570698856	Energy-Efficient Thermal Comfort Control in Smart Buildings	Musbah Abdulgader (Eastern Michigan University, USA); Fadel M Lashhab (Howard University & Washington DC, USA)
1.30 P.M -1.45 P.M	1570692724	Outlier Prediction Using Random Forest Classifier	Divya Mohandoss, Yong Shi and Kun Suo (Kennesaw State University, USA)

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**SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: MICHAEL NOVITZKY (UNITED STATES MILITARY ACADEMY, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570697939	Towards Compositional Abstraction of Analog Neuronal Networks	Ahmad Tarraf and Lars Hedrich (University of Frankfurt, Germany)
12.45 P.M -1.00 P.M	1570695938	Reinforcement Learning Based Penetration Testing of a Microgrid Control Algorithm	Christopher Neal, Hanane Dagdougui and Andrea Lodi (Polytechnique Montreal, Canada); José M. Fernandez (Ecole Polytechnique de Montreal, Canada)
1.00 P.M -1.15 P.M	1570696219	Texture Analysis for Machine Learning Based Marble Tiles Sorting	George Sidiropoulos, Athanasios Ouzounis, George A Papakostas and Ilias Sarafis (International Hellenic University, Greece); Andreas Stamkos (Intermek A. B. E. E., Greece); George Solakis (Solakis Antonios Marble S. A., Greece)
1.15 P.M -1.30 P.M	1570696294	Evaluation of Combining Optical and SAR Imagery for Burned Area Mapping Using Machine Learning	Anugrah Indah Lestari, Mia Rizkinia and Dodi Sudiana (Universitas Indonesia, Indonesia)
1.30 P.M -1.45 P.M	1570698146	Automatic Video Summarization With Timestamps Using Natural Language Processing Text Fusion	Ashraf AbdelRaouf, Ahmed Emad, Fady Basel, Mark Refaat, Nada Shorim and Mohamed Abdelhamed (Misr International University, Egypt)

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**SESSION 3: ALGORITHMS AND THEORY****SESSION CHAIR: SUELY OLIVEIRA (UNIVERSITY OF IOWA, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570695852	Pulse Separation Using Time-Frequency Mask and Machine Learning	Jaron Lin and Jordan Juliano (California State University, Fullerton, USA); Alex Erdogan (California state University Fullerton, USA); Kiran George (California State University, Fullerton, USA)
12.45 P.M -1.00 P.M	1570695944	Exploring the Effect of Noisy Environment on Distributed Problem Solving	Saeid Samadi Dana (Austin Peay State University, USA)
1.00 P.M -1.15 P.M	1570696230	Towards Optimizing Task Scheduling Process in Cloud Environment	Yong Shi, Kun Suo, Jameson Hodge and Steven Kemp (Kennesaw State University, USA)
1.15 P.M -1.30 P.M	1570696485	Application of Firefly Algorithm to UWB Indoor Positioning	Shiyu Cheng, Xinguang Wang and Haoqi Zhang (Worcester Polytechnic Institute, USA)
1.30 P.M -1.45 P.M	1570696658	Benchmarking of Regression Algorithms for Simulating the Building's Energy	Asimina Dimara (Centre for Research and Technology Hellas, Greece); Christos Nikolaos Anagnostopoulos (University of the Aegean, Greece); Stelios Krinidis (Centre for Research and Technology Hellas, Greece); Dimitrios Tzovaras (Information Technologies Institute, Greece)

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**SESSION 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: RICHARD OLAWOYIN (OAKLAND UNIVERSITY, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698429	Analysis of Distracted Driver Behaviour Using Self-Organizing Maps	David A Calvert, Matthew Samson and Lana M. Trick (University of Guelph, Canada)
12.45 P.M -1.00 P.M	1570695378	Compressed MobileNet V3	Kavyashree Prasad and Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA)
1.00 P.M -1.15 P.M	1570696811	Dynamic Phase Calibration Method for CSI-Based Indoor Positioning	Guangxin Wang (Oregon State University, USA); Arash Abbasi (Dakota State University, USA); Huaping Liu (Oregon State University, USA)
1.15 P.M -1.30 P.M	1570693892	Detection of HTTPS Brute-Force Attacks With Packet-Level Feature Set	Jan Luxemburk and Karel Hynek (FIT CTU & CESNET a.l.e.); Tomas Cejka (CESNET a.l.e.)
1.30 P.M -1.45 P.M	1570698836	WiFi-Based Environment Adaptive Positioning With Transferable Fingerprint Features	Guangxin Wang (Oregon State University, USA); Arash Abbasi (Dakota State University, USA); Huaping Liu (Oregon State University, USA)

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**SESSION 5: BIG DATA, DATA MANAGEMENT AND ANALYTICS****SESSION CHAIR: MD ALI (RIDER UNIVERSITY,USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698849	Sentiment Analysis of the United States Senate Twitter Feeds in Election Year 2020	Kalyan Sahu and Yoonsuk Choi (California State University, Fullerton, USA)
12.45 P.M -1.00 P.M	1570692939	News Categorization Using Hybrid BiLSTM-ANN Model With Feature Engineering	Sowmya Sanagavarapu, Sashank Sridhar and S. Chitrakala (Anna University, India)
1.00 P.M -1.15 P.M	1570696498	An Ontology-Based Approach for Curriculum Mapping in Higher Education	Muthana Zouri and Alex Ferworn (Ryerson University, Canada)
1.15 P.M -1.30 P.M	1570697855	Medi Crawl - A Web Search Engine for Diseases	Devharsh Trivedi (Stevens Institute of Technology, USA); Vaishnavi Gopalakrishnan (Stevens Institute of Technology & Anna University, USA)
1.30 P.M -1.45 P.M	1570696316	Monitoring People Moving During Covid-19 Pandemic in the Emilia-Romagna Region	Gian Paolo Jesi, Elisabetta Gori, Andrea Zucchelli and Nicola Spazzoli (Lepida ScpA, Italy); Gianluca Mazzini (LepidaSpA & UniFe, Italy)

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**SESSION 6: ALGORITHMS AND THEORY****SESSION CHAIR: JOSÉ TORRES (UNIVERSITY FERNANDO PESSOA, PORTUGAL)****SESSION TIME: 12.30 P.M - 1.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570696699	Accumulated Generalized Mean Value - a New Approach to Flow-Based Feature Generation for Encrypted Traffic Characterization	Raoul Nigmatullin (Kazan National Research Technical University, Russia); Alexander Vladimirovich Ivchenko (Moscow Institute of Physics and Technology, Russia); Semyon Dorokhin (Moscow Institute of Physics and Technology, Russia)
12.45 P.M - 1.00 P.M	1570697062	A Virtual Reality (VR) Based Interactive and Educative Experience of Hajj and Umrah for the People of Bangladesh	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1.00 P.M - 1.15 P.M	1570697010	An Intuitionistic Fuzzy MCDM Approach Adapted to Minimum Spanning Tree Algorithm for Spreading Content on Social Media Network	Esra Çakır and Ziya Ulukan (Galatasaray University, Turkey)
1.15 P.M - 1.30 P.M	1570697593	Stock Market Prediction Using Deep Learning by (LSTM	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

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<b>BREAK</b>	<b>1.45 P.M - 2.00 P.M</b>
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## PARALLEL SESSIONS

### SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**SESSION CHAIR: RICHARD OLAWOYIN (OAKLAND UNIVERSITY, USA)**

**SESSION TIME: 2.00 P.M - 3.30 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 P.M – 2.15 P.M	1570698790	EEG Signal Analysis for Seizure Detection Using Recurrence Plots and Tchebichef Moments	Konstantinos Tziridis and Theofanis Kalampokas (Eastern Macedonia and Thrace Institute of Technology, Greece); George A Papakostas (International Hellenic University, Greece)
2.15 P.M - 2.30 P.M	1570697961	Explainable Neural Network-Based Modulation Classification via Concept Bottleneck Models	Lauren J Wong (Intel AI Lab, USA); Sean McPherson (Intel AI Lab & Intel Labs, USA)
2.30 P.M - 2.45 P.M	1570696667	BinArray: A Scalable Hardware Accelerator for Binary Approximated CNNs	Mario Fischer and Juergen Wassner (Lucerne University of Applied Sciences and Arts, Switzerland)
2.45 P.M - 3.00 P.M	1570695748	Intrinsic Hierarchical Clustering Behavior Recovers Higher Dimensional Shape Information	Paul Samuel P Ignacio (University of the Philippines Baguio, Philippines)
3.00 P.M - 3.15 P.M	1570696745	Dynamic Performance Improvement of DFIM Based on Hybrid Computational Technique	Mohamed Yazid Zidani (Faculty of Technology University of Mostefa Ben Boulaïd Batna2, Algeria); Noureddine Brakta and Omar Bendjeghaba (University of M'hamed Bougarra, Bumerdes, Algeria)

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**SESSION 8: ALGORITHMS AND THEORY AND ARTIFICIAL INTELLIGENCE****SESSION CHAIR: SUELY OLIVEIRA (UNIVERSITY OF IOWA, USA)****SESSION TIME: 2.00 P.M - 3.00 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698433	Addressing Data Sparsity in Collaborative Filtering Based Recommender Systems Using Clustering and Artificial Neural Network	Ashrf Althbiti, Rayan Alshamrani, Tami Alghamdi, Stephen Lee and Xiaogang Ma (University of Idaho, USA)
2.15 P.M - 2.30 P.M	1570698028	Perfect Tabular Hashing in Pseudolinear Time	Shekhar Palit (Amazon, Inc., USA); Kevin A. Wortman (California State University, Fullerton, USA)
2.30 P.M - 2.45 P.M	1570698613	Wavelet Analysis Using Hilbert Transform and Matching Algorithm for Radar Receiver System	Cesar Martinez Melgoza, Henry Lin, Illianna Izabal, Ameya Govalkar, Kayla J Lee, Alex Erdogan and Kiran George (California State University, Fullerton, USA)
2.45 P.M - 3.00 P.M	1570697946	District Energy Optimization Based on MLP Simulation	Asimina Dimara (Centre for Research and Technology Hellas, Greece); Dimitrios Triantafyllidis (The Centre for Research & Technology, Hellas - CERTH & Information Technology Institute - ITI, Greece); Stelios Krinidis and Konstantinos Kitsikoudis (Centre for Research and Technology Hellas, Greece); Dimosthenis Ioannidis (Information Technologies Institute, Greece); Stavros Antipas (Patras Port Authority S. A, Greece); Dimitrios Tzovaras (Information Technologies Institute, Greece)

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**SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: OLAWANDE DARAMOLA (CAPE PENINSULA UNIVERSITY OF TECHNOLOGY, SOUTH AFRICA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698197	Transfer Learning Model for Disrupting Misinformation During a COVID-19 Pandemic	Shova Bhandari, Sofia Mohamud, Rini Raju and Ebrima Ceesay (George Mason University, USA)
2.15 P.M - 2.30 P.M	1570695781	Track Prediction of Tropical Cyclones Using Long Short-Term Memory Network	Sandeep Kumar (University of Delhi & IIIT, Delhi, India); Koushik Biswas and Ashish Kumar Pandey (IIIT Delhi, India)
2.30 P.M - 2.45 P.M	1570698383	Monuments Recognition Using Deep Learning VS Machine Learning	Shahd Hesham, Dalia Yasser, Rawan Khaled, Nada Shorim, Fatma Helmy and Samira Refaat (Misr International University, Egypt)
2.45 P.M - 3.00 P.M	1570698604	SDPredictNet-A Topology Based SDN Neural Routing Framework With Traffic Prediction Analysis	Sowmya Sanagavarapu and Sashank Sridhar (Anna University, India)
3.00 P.M - 3.15 P.M	1570698804	Row Detection Using a Machine Learning Approach for Autonomous Agriculture Vehicles	Niko Simon (University of St. Thomas, USA); Cheol-Hong Min (University of Saint Thomas, USA)
3.15 P.M – 3.30 P.M	1570697963	Indian Premier League Player Selection Model Based on Indian Domestic League Performance	Amlan Ghosh (Indian Institute of Technology Bombay, India); Abhirup Sinha (Paderborn University, Germany); Pritam Mondal (IDFC First Bank, India); Anusree Roy (Indian Institute of Engineering Science and Technology Shibpur, India); Pritilata Saha (Paderborn University, Germany)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 10: BIG DATA, DATA MANAGEMENT AND ANALYTICS AND ARTIFICIAL INTELLIGENCE****SESSION CHAIR: KUN SUO (KENNESAW STATE UNIVERSITY, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698411	Pattern Analysis for Transaction Fraud Detection	Nicholas Cochrane, Thomas Gomez, John Warmerdam, Moises Flores, Preston Mccullough and Vincent Weinberger (California State University, USA); Matin Pirouz (California State University, Fresno, USA)
2.15 P.M - 2.30 P.M	1570696871	Immersive Analytics Application in Smart Agriculture and Animal Behavior	Emilee Klaas (1 University Plaza, Platteville, WI, USA); Mehdi Roopaei (University of Wisconsin - Platteville, USA)
2.30 P.M - 2.45 P.M	1570698414	Analysis of Airbnb Prices Using Machine Learning Techniques	Aafreen Chhipa, Ashwin Gadupudi, Damanpreet Kaur, Jasleen Dhillon, Nandana Eluri and Rajeswari Eravi (California State University, USA); Matin Pirouz (California State University, Fresno, USA)
2.45 P.M - 3.00 P.M	1570698574	Analysis of Twitter Data Using Stance Detection and Topic Modelling to Evaluate People's Reaction Toward E-Cigarettes in Indonesia	Cristin Purnama Sari Kaunang (University of Indonesia, Indonesia); Fitria Amastini (Universitas Indonesia & Universitas Terbuka, Indonesia); Rahmad Mahendra (Universitas Indonesia, Indonesia)
3.00 P.M - 3.15 P.M	1570698872	Semi-Automatic Reliable Explanations for Prediction in Graphs	Masaru Todoriki and Masafumi Shingu (Fujitsu Laboratories Ltd., Japan); Shotaro Yano (Fujitsu Kyushu Network Technologies Limited, Japan); Arseny Tolmachev, Tao Komikado and Koji Maruhashi (Fujitsu Laboratories Ltd., Japan)
3.15 P.M – 3.30 P.M	1570698415	Determining Level of Service of California Highways	Enrique Verduzco, Min Su, Israel Perez, Manali Ajudiya, Julian Sandoval, Leonardo Yoshida and Ryan Perez (California State University, USA); Matin Pirouz (California State University, Fresno, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**



**SESSION 11: ALGORITHMS AND THEORY AND ARTIFICIAL INTELLIGENCE****SESSION CHAIR: OKECHUKWU UGWEJE (UNIVERSITY OF MOUNT UNION, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698633	Quasi-Monte Carlo Integration on the Unit Disk	Sayan Ghose (3 Brick Manor Dr, USA); Lawrence Pohlman (University of Massachusetts Boston, USA)
2.15 P.M - 2.30 P.M	1570698758	On Distributed Forest Decomposition of Graphs With Bounded Arboricity	Narek Hovhannisyan (American University of Armenia & TeamViewer Armenia Company, Armenia)
2.30 P.M - 2.45 P.M	1570698803	A Self-Updating K-Contingency List for Smart Grid System	Sohini Roy (Arizona State University, USA); Arunabha Sen (ASU, USA)
2.45 P.M - 3.00 P.M	1570698820	Motion Detection With Segmentation of Optical Flows for Infrared Images	Trung Tat Pham (United States Air Force Academy)
3.00 P.M - 3.15 P.M	1570698833	A Broadcasting Heuristic for Hypercube of Trees	Mohammad Saber Gholami and Hovhannes A Harutyunyan (Concordia University, Canada)
3.15 P.M – 3.30 P.M	1570698017	Understanding the Pandemic Through Mining Covid News Using Natural Language Processing	Nafiz Sadman (Silicon Orchard R&D lab, USA); Nishat Anjum (Independent University, Bangladesh); Kishor Datta Gupta (University of Memphis, USA); M A Parvez Mahmud (Deakin University, Australia)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 12: WIRELESS COMMUNICATIONS****SESSION CHAIR: MICHAEL TURI (CALIFORNIA STATE UNIVERSITY, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570696334	Performance Evaluation of Adaptive Beaconing for High-Speed Wireless LAN Communication With Running Vehicle APs	Shoya Kobayashi and Tutomu Murase (Nagoya University, Japan)
2.15 P.M - 2.30 P.M	1570698550	Downlink Interoperability Model of LTE/Wi-Fi Integration/Coexistence With Performance Evaluation	Aymen Zreikat and Ersin Elbasi (American University of the Middle East, Kuwait)
2.30 P.M - 2.45 P.M	1570696746	Proposal of User Cooperative Mobility Control for Higher Throughput in Social Ad Hoc Networks With Dynamic Optimal Routing	Takumi Anjiki and Tutomu Murase (Nagoya University, Japan)
2.45 P.M - 3.00 P.M	1570698069	Secrecy Enhancement of a Cognitive Two-Way Relay Network With Coordinate Interleaving	M. Ajmal Khan (Ohio Northern University, USA)
3.00 P.M - 3.15 P.M	1570697747	Performance Characterization of 64-APSK Mapping Schemes for Uncoded Space-Time Labeling Diversity in Rician Fading Channels	Dauda Olayinka Ayanda (University of KwaZulu-Natal & School of Engineering, South Africa); Peter Akuon (University of Nairobi & Risach Engineering, Kenya); Khadeejah Abdulsalam (University of Lagos, Nigeria); Adefolarin Bolaji (Purdue University, USA)
3.15 P.M – 3.30 P.M	1570696846	Centralized Route Control for Expanding Coverage by Wireless LAN With Many Vehicle Aps	Ryota Miyazaki (Nagoya University, Japan); Tutomu Murase (Nagoya University, Japan)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**DAY 2:** **28<sup>th</sup> January 2021**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	<b>PARTICIPATION LINK</b>
<b>10.00 A.M – 10.45 A.M</b>	<b>KEYNOTE ADDRESS BY RANDALL DAVIS (PROFESSOR, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, USA)</b> <b>TITLE OF TALK: NEXT GENERATION TESTING OF COGNITIVE STATUS</b>	
<b>10:45 A.M – 11.30 A.M</b>	<b>KEYNOTE ADDRESS BY NANCY BAYM (MICROSOFT CORPORATION, USA)</b> <b>TITLE OF TALK: THE RELATIONAL AFFORDANCES OF PLATFORMS</b>	
<b>11.30 A.M - 12.15 P.M</b>	<b>KEYNOTE ADDRESS BY JONATHAN ALDRICH (PROFESSOR, CARNEGIE MELLON UNIVERSITY, USA)</b> <b>TITLE OF TALK: PENROSE: FROM MATHEMATICAL NOTATION TO BEAUTIFUL DIAGRAMS</b>	

<b>12.15 P.M - 12.30 P.M</b>	<b>BREAK</b>
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**All the timings are given in Eastern Standard Time (EST (GMT-5))**

## PARALLEL SESSIONS

### SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING AND ALGORITHM

**SESSION CHAIR :PAUL SAMUEL IGNACIO (UNIVERSITY OF THE PHILIPPINES BAGUIO, PHILIPPINES)**

**SESSION TIME: 12.30 P.M - 1.45 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.30 P.M - 12.45 P.M	1570694106	Video Anomaly Detection Method Based on Future Frame Prediction and Attention Mechanism	Chenxu Wang (Beijing Information Science and Technology University, China); Yanxin Yao (Beihang University, China); Han Yao (Beijing Information Science and Technology University, China)
12.45 P.M -1.00 P.M	1570693006	SeVa: A Food Donation App for Smart Living	Christina B Varghese (Montclair State University, USA); Drashti Pathak (Montclair State University & United States of America, USA); Aparna Varde (Montclair State University, USA)
1.00 P.M -1.15 P.M	1570694064	Development of the Protocol for Inter-Autonomous Systems Routing in Software Defined Networks	Fred Arineitwe (Makerere University, Uganda); Baker Mwebembezi (Uganda Christian University, Uganda)
1.15 P.M -1.30 P.M	1570698863	Radar Pulse on Pulse Identification Algorithm Hardware Acceleration Performance Analysis	Jordan Juliano and Jaron Lin (California State University, Fullerton, USA); Alex Erdogan (California state University Fullerton, USA); Kiran George (California State University, Fullerton, USA)
1.30 P.M -1.45 P.M	1570696869	Improving Reward Functions in Robots Playing Capture the Flag Using Q-Learning	Michael Novitzky (United States Military Academy & Robotics Research Center, USA); Christopher Korpela and Trevor Powers (United States Military Academy, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 14: CLOUD COMPUTING****SESSION CHAIR: MD ALI (RIDER UNIVERSITY,USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570694972	Tradeoff and Solutions of Data Storage in Edge Computing	Annelise S Trout and Xiang Cao (Grand Valley State University, USA)
12.45 P.M -1.00 P.M	1570696638	Optimization of Event Management Activity in Public Health Services Using OpenERP With Quickstart Approach	Putu Dela Apsari Mertadewi, Warih Puspitasari and Muhardi Saputra (Telkom University, Indonesia)
1.00 P.M -1.15 P.M	1570696710	Private Cloud Tuning for Efficient Inter-Server Simulation Execution	Pavle Ivanovic (TU Clausthal, Germany); Christian Siemers (Clausthal University of Technology, Germany)
1.15 P.M -1.30 P.M	1570692570	Data Science Techniques to Detect Fraudulent Resource Consumption in the Cloud	Lauren Courtney, Xiang Li and Rongzuo Xu (Johns Hopkins University, USA); Joel Coffman (United States Air Force Academy & Johns Hopkins University, USA)
1.30 P.M -1.45 P.M	1570694001	Business Continuity Implementation for Data Center Environments	Elisa Benetti (LepidaScpA, Italy); purvis (LepidaSpA & UniFe, Italy)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 15: CLOUD COMPUTING & BIG DATA MANAGEMENT****SESSION CHAIR: GARIMA BAJWA (LAKEHEAD UNIVERSITY,CANADA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698691	An Online Cost Optimization Algorithm for IaaS Instance Releasing in Cloud Environments	Bingbing Zheng, Li Pan and Shijun Liu (Shandong University, China)
12.45 P.M -1.00 P.M	1570695038	A Share Quota Manager for the Public Administrations	Enrica Salbaroli (Lepida SpA, Italy); Andrea Zucchelli (Lepida ScpA, Italy); Gianluca Mazzini (University of Ferrara and LepidaSpA, Italy)
1.00 P.M -1.15 P.M	1570698866	Election Data Analysis From Clustering Welfare Data	Felix Zhan (US Online Tutoring Academy, USA); Tiffany Zhan (University of Nevada Las Vegas/AEOP, USA)
1.15 P.M -1.30 P.M	1570694094	Emerging Trends in Data Center Management Automation	Moises Levy (West Texas A&M University, USA); Anitha Sarah Subburaj (West Texas A&M University, USA)
1.30 P.M -1.45 P.M	1570698913	Blockchain Simulation: A Web Application for IT Education	Zexi Xing and Zhengxin Chen (University of Nebraska at Omaha, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 16: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: EMAN ABDELFAH (RAMAPO COLLEGE OF NEW JERSEY, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570694359	Deep Learning-Based Resolution Prediction of Software Enhancement Reports	Muhammad Ali Arshad (Nanjing University of Aeronautics and Astronautics, China); Huang Qiu (Nuaa University, China); Yasir Hussain (Nanjing University of Aeronautics and Astronautics, China); Adnan Riaz (Dalian University of Technology (DUT), China)
12.45 P.M -1.00 P.M	1570694470	Analysing Tweets on New Norm: Work From Home During COVID-19 Outbreak	Swapna Gottipati, Kyong Jin Shim, Hui Hian Teo, Karthik Nityanand and Shreyansh Shivam (Singapore Management University, Singapore)
1.00 P.M -1.15 P.M	1570694548	Effect of Absolute Cosine Value Regularization on VGG-19	William Singleton and Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA)
1.15 P.M -1.30 P.M	1570694565	Bayesian Time-Series Analysis to Predict Real-Time Smart Grid Energy Price Uncertainty	Saeed Ahmadian and Saba Ebrahimi (University of Houston, USA); Heidar Malki (University of Houston & College of Technology, USA)
1.30 P.M -1.45 P.M	1570694913	CondenseNeXt: An Ultra-Efficient Deep Neural Network for Embedded Systems	Priyank Kalgaonkar and Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 17: CLOUD COMPUTING AND DATA CENTER SYSTEMS****SESSION CHAIR: ZIYA ARNAVUT (SUNY FREDONIA, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698554	A Kubernetes CI/CD Pipeline With Asylo as a Trusted Execution Environment Abstraction Framework	Jamal Mahboob (Johns Hopkins University & Google, LLC, USA); Joel Coffman (United States Air Force Academy & Johns Hopkins University, USA)
12.45 P.M -1.00 P.M	1570697047	Online Store for Local Small and Medium Business	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Tahia Tazin (North South University, Bangladesh)
1.00 P.M -1.15 P.M	1570698596	An Empirical Study in Edge Computing Using AWS	Jacob Koch and Wei Hao (Northern Kentucky University, USA)
1.15 P.M -1.30 P.M	1570697053	Development of Online Home Sharing Web Application	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1.30 P.M -1.45 P.M	1570696157	Parallel Proxy Re-Encryption Workload Distribution for Efficient Big Data Sharing in Cloud Computing	Osama Ahmed Khashan (Saudi Electronic University, Saudi Arabia)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**



**SESSION 18: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: FADI MUHEIDAT (CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570695627	Effectiveness of Discrete Particle Swarm Optimization and Binary Differential Evolution for Process Formation	Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)
12.45 P.M -1.00 P.M	1570696003	Resilient Cyber-Security Approach for Aviation Cyber-Physical Systems Protection Against Sensor Spoofing Attacks	Abdulaziz A Alsulami (Tennessee State University, USA); Salaeh Zein-Sabatto (Ten State U, USA)
1.00 P.M -1.15 P.M	1570696021	A Review on Edge Intelligence Based Collaborative Learning Approaches	Lahiru Pasan Welagedara, Janani Harischandra and Nuwan Jayawardene (Informatics Institute of Technology, Sri Lanka)
1.15 P.M -1.30 P.M	1570696090	Deep Learning for Optimized Multiuser OFDMA Energy-Efficient Wireless Transmission	Yuan Xing (University of Wisconsin-Stout, USA); Yuchen Qian (Baylor University, USA); Wei Shi and Xuejun Liu (University of Wisconsin-Stout, USA); Tianchi Zhao (University of Arizona, USA); Cristiano Tapparello (University of Rochester, USA)
1.30 P.M -1.45 P.M	1570696263	Drug Safety Intelligence and Automation	Vedant Maniyar and Doina Bein (California State University, Fullerton, USA); Marian Sorin Nistor (Universität der Bundeswehr München, Germany); Stefan Pickl (UBw Munich & COMTESSA, Germany)

**BREAK****1.45 P.M – 2.00 P.M****All the timings are given in Eastern Standard Time (EST (GMT-5))**

## PARALLEL SESSIONS

### SESSION 19: COMPUTER ARCHITECTURE , VLSI AND P2P COMPUTING

**SESSION CHAIR: HAILU KASSA BELAY (MORGAN STATE UNIVERSITY, USA)**

**SESSION TIME: 2.00 P.M - 3.30 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 P.M – 2.15 P.M	1570697815	Evaluating the Performances of Memristor, FinFET, and Graphene TFET in VLSI Circuit Design	Naheem Adesina and Ashok Srivastava (Louisiana State University, USA)
2.15 P.M - 2.30 P.M	1570698652	FPGA-Based Implementation of MSPWM Utilizing 64-Value LUT for Reference Signal Generation	Amean Al Safi (University of Thi Qar, Iraq); Ali Al-Khayyat and Zeyad Aklah (University of Thi-Qar, Iraq)
2.30 P.M - 2.45 P.M	1570698848	CSRaaS: Composite Service Rendezvous as a Service for IoT-Based Smart Environments	Benjamin Gooder, Rasib Khan, Paul-Rus Adrian and Kokou Sossoe (Northern Kentucky University, USA)
2.45 P.M - 3.00 P.M	1570698597	CoviReader: Using IOTA and QR Code Technology to Control Epidemic Diseases Across the US	Oswaldo Benjamin Cisneros Merino, Jiani Ye and Chol Hyun Park (University of Nevada Las Vegas, USA); Yoohwan Kim (University of Nevada, Las Vegas, USA)
3.00 P.M - 3.15 P.M	1570698610	Factors Enhancing the Use of Business Intelligence to Support Organizational Learning: A Conceptual Model	Kenza Finnaoui (Ibn Zohr University & Ecole Nationale de Commerce et de Gestion, Morocco); El hassan Megder and Ouafae Zerouali Ouariti (Ibn Zohr University, Morocco)
3.15 P.M – 3.30 P.M	1570698044	A Novel Multi-Hop Routing Protocol for D2D Communications in 5G	Rana Ahmed (American University of Sharjah, United Arab Emirates)

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**SESSION 20: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: OLAWANDE DARAMOLA (CAPE PENINSULA UNIVERSITY OF TECHNOLOGY, SOUTH AFRICA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570696265	Cyber-Security Enhancement of Smart Grid's Substation Using Object's Distance Estimation in Surveillance Cameras	Saeed Ahmadian and Saba Ebrahimi (University of Houston, USA)
2.15 P.M - 2.30 P.M	1570696446	Novel CNN and Hybrid CNN-LSTM Algorithms for UWB SNR Estimation	Arash Abbasi (Dakota State University, USA); Huaping Liu (Oregon State University, USA)
2.30 P.M - 2.45 P.M	1570696364	App Success Classification Using Machine Learning Models	Eman Abdelfattah, Biplab Magar and Subin Mali (Ramapo College of New Jersey, USA)
2.45 P.M - 3.00 P.M	1570696400	Novel Device Detection Using RF Fingerprints	Josh Robinson and Scott Kuzdeba (BAE Systems, USA)
3.00 P.M - 3.15 P.M	1570692866	Optic Disk Extraction and Hard Exudate Identification in Fundus Images Using Computer Vision and Machine Learning	Sudhir Rao Rupanagudi, Varsha G Bhat, Bharath Kumar Revana, Jeevitha Gowda Chandramouli, Sheetal Devegowda, Darshan G, Kaushik Kumaran, Niyatha Malepati, Laveena Manjunath, Shwetha N and Vaishnavi Ramsali (WorldServe Education, India); Vandana C Shekar, Tarun M V, Yamini Narayan and Sanjay S (Global Academy of Technology, India)
3.15 P.M – 3.30 P.M	1570696361	Performance of Different Classification Models on National Coral Reef Monitoring Dataset	Eman Abdelfattah and Shreeja Dahal (Ramapo College of New Jersey, USA); Robert Schaeffer (School of Theoretical & Applied, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 21: COMPUTATIONAL INTELLIGENCE AND COMPUTER GRAPHICS****SESSION CHAIR: XIANTA JIANG (MEMORIAL UNIVERSITY OF NEWFOUNDLAND,CANADA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570695034	Comparison of Two Differential Evolution Approaches for Combinatorial Double Auctions	Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)
2.15 P.M - 2.30 P.M	1570698878	Data Mining of Twitter Retweets: A Visual and Practical Representation	Tiffany Zhan (University of Nevada Las Vegas/AEOP, USA); Felix Zhan (US Online Tutoring Academy, USA)
2.30 P.M - 2.45 P.M	1570697036	Cyber-Hero: A Gamification Framework for Cyber Security Awareness for High Schools Students	Hani H Qusa and Jumana Tarazi (Higher Colleges of Technology, United Arab Emirates)
2.45 P.M - 3.00 P.M	1570697190	Petri Nets Modelling of Assembly Robots Coordination	Mowafak Hassan Abdul-Hussin (University of Technology, Baghdad, Iraq)
3.00 P.M - 3.15 P.M	1570696115	Studying Execution Time and Memory Transfer Time of Image Processing Using GPU Cards	Abu S Asaduzzaman, Srinivas Jojigiri, Thushar Sabu and Sanath Tailam (Wichita State University, USA)
3.15 P.M – 3.30 P.M	1570696329	Design Minimum Monitors and Maximally Permissive Supervisors Models of FMS by S4PR-Nets	Mowafak Hassan Abdul-Hussin (University of Technology, Baghdad, Iraq)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 22: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: MICHAEL NOVITZKY (UNITED STATES MILITARY ACADEMY, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570696482	Security and Privacy Issues With Virtual Private Voice Assistants	Deeksha Anniappa and Yoohwan Kim (University of Nevada, Las Vegas, USA)
2.15 P.M - 2.30 P.M	1570696452	Severity Assessment of Cervical Lymph Nodes Using Modified VGG-Net, and Squeeze and Excitation Concept	Hitesh Tekchandani (National Institute of Technology, India); Shirish Verma (NIT Raipur, India); Narendra D Londhe (G E ROAD, India); Rajiv Jain and Avani Tiwari (Regional Cancer Center, India)
2.30 P.M - 2.45 P.M	1570698537	Accelerated Modified Sine Cosine Algorithm for Data Clustering	Saida Ishak Boushaki ((LREEI) University M'Hamed Bougara Boumerdes, Algeria); Omar Bendjeghaba (University of M'hamed Bougarra, Boumerdes, Algeria)
2.45 P.M - 3.00 P.M	1570696458	Novel Cascade CNN Algorithm for UWB Signal Denoising, Compressing, and ToA Estimation	Arash Abbasi (Dakota State University, USA); Huaping Liu (Oregon State University, USA)
3.00 P.M - 3.15 P.M	1570696490	Automotive Feature Coordination Based on Machine-Learning Approach	Sven Dominka, Michael Mandl, Michael Dübner and Sarah Tabrizi (Robert Bosch AG, Austria)
3.15 P.M – 3.30 P.M	1570696449	Unsupervised Signal Clustering Through Deep Manifold Learning	James Stankowicz and Scott Kuzdeba (BAE Systems, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 23: CRYPTOGRAPHY , SECURITY AND ROBOTICS****SESSION CHAIR: SHAHAB TAYEB (CALIFORNIA STATE UNIVERSITY, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698606	Performance Analysis of Gaussian Normal Basis GF(2 <sup>m</sup> ) Serial Multipliers and Inverters	Mahidhar Puligunta and Hayssam El- Razouk (California State University, Fresno, USA)
2.15 P.M - 2.30 P.M	1570698870	Predictive Tracking of a High Capability Malicious UAV	Jason Brown and Nawin Raj (University of Southern Queensland, Australia)
2.30 P.M - 2.45 P.M	1570692918	A Lightweight Countermeasure to DIS Attack in RPL Routing Protocol	Ge Guo (Wuhan Qingchuan University, China)
2.45 P.M - 3.00 P.M	1570696437	A Study on UAV Operating System Security and Future Research Challenges	Shahrear Iqbal (National Research Council, Canada)
3.00 P.M - 3.15 P.M	1570698632	Correlation of Cyber Threat Intelligence Data Across Global Honeypots	Jay Thom, Yash K Shah and Shamik Sengupta (University of Nevada, Reno, USA)
3.15 P.M – 3.30 P.M	1570698854	A Secure Communication Method for CANBus	Chol Hyun Park (University of Nevada Las Vegas, USA); Yoohwan Kim and Ju-Yeon Jo (University of Nevada, Las Vegas, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 24: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: DOINA BEIN (CALIFORNIA STATE UNIVERSITY, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570696564	Effectiveness of Classifiers to Identify Hand Gestures With Motion Capture Coordinate Markers	Eman Abdelfattah, Arifur Rahman and Michael Whitlock (Ramapo College of New Jersey, USA)
2.15 P.M - 2.30 P.M	1570696550	CombinoChord: A Guitar Chord Generator App	Kevin A. Wortman and Nicholas T Smith (California State University, Fullerton, USA)
2.30 P.M - 2.45 P.M	1570696570	Performance and Predicting of Inbound Logistics Processes Using Machine Learning	Abdullah Albadrani, Faisal Alghayadh, Mohamed Zohdy and Richard Olawoyin, Esam Alouf (Oakland University, USA)
2.45 P.M - 3.00 P.M	1570696568	Rapid Detection of Bacteria Using Raman Spectroscopy and Deep Learning	Kaitlyn Kukula, Denzel Farmer, Jesse Duran, Nishatul Majid, Christie Chatterley, Jeff Jessing and Yiyang Li (Fort Lewis College, USA)
3.00 P.M - 3.15 P.M	1570696507	S-PANET: A Shallow Convolutional Neural Network for Pain Severity Assessment in Uncontrolled Environment	Ashish Semwal (NIT Raipur, India); Narendra D Londhe (G E ROAD, India)
3.15 P.M – 3.30 P.M	1570698559	Intrusion Detection in Software Defined Network Using Deep Learning Approach	Bambang Susilo and Riri Fitri Sari (University of Indonesia, Indonesia)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**DAY: 3**

**29<sup>th</sup> January, 2021**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	<b>PARTICIPATION LINK</b>
<b>10.00 A.M – 10.45 A.M</b>	KEYNOTE ADDRESS BY <b>HAL ABELSON (PROFESSOR, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, USA)</b>  <b>TITLE OF TALK: FROM COMPUTATIONAL THINKING TO COMPUTATIONAL ACTION</b>	
<b>10:45 A.M –11.30 A.M</b>	KEYNOTE ADDRESS BY <b>GAJOS KRZYSZTOF (PROFESSOR, HARVARD UNIVERSITY, USA)</b>  <b>TITLE OF TALK: AI, DESIGN, AND SOCIAL JUSTICE</b>	
<b>11.30 A.M - 12.15 P.M</b>	KEYNOTE ADDRESS BY <b>AMY S BRUCKMAN (PROFESSOR, GEORGIA INSTITUTE OF TECHNOLOGY, USA)</b>  <b>TITLE OF TALK: BEYOND THE TECHNOLOGY: A SOCIOTECHNICAL VIEW OF MANAGING ONLINE BAD BEHAVIOR</b>	

<b>12.15 P.M –12.30 P.M</b>	<b>BREAK</b>
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**All the timings are given in Eastern Standard Time (EST (GMT-5))**



## PARALLEL SESSIONS

### SESSION 25: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**SESSION CHAIR: RANIA HUSSEIN(UNIVERSITY OF WASHINGTON,USA)**

**SESSION TIME: 12.30 P.M - 1.45 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.30 P.M - 12.45 P.M	1570696559	Machine Learning Techniques for Detection of Website Phishing: A Review for Promises and Challenges	Eman Abdelfattah (Ramapo College of New Jersey, USA); Ammar Mohammad Jamil Odeh (Princess Sumaya University for Technology, Jordan); Ismail Keshta (AlMaarefa University, Saudi Arabia)
12.45 P.M -1.00 P.M	1570696672	A Deep Learning-Based Multi-Model Ensemble Methods for Eye States Classification From EEG	Md Islam (Peoples University of Bangladesh, Bangladesh); Md Rahman and Md Rahan (Islamic University, Kushtia, Bangladesh); Md Robiul Hoque (Associated, Korea (South)); Arman Kheirati Roonizi (Assistant, Iran); Md Aktaruzzaman (Islamic University, Kushtia, Bangladesh)
1.00 P.M -1.15 P.M	1570696681	Which Machine Learning Method for Outbreaks Predictions?	Patrick Loola Bokonda (Mohammed V University in Rabat - Ecole Mohammadia d'Ingénieurs (EMI) & Siweb Laboratory, Morocco); Khadija Ouazzani-Touhami (Mohammed V University in Rabat & EMI - SIWEB Team, ENSMR - Rabat, Morocco); Nissrine Souissi (Ecole Nationale Supérieure des Mines de Rabat, Morocco)
1.15 P.M -1.30 P.M	1570696723	Consensus From Distributed Iterative Voting	Agneyi Guha (BSQ Research LLP, India); Abhijit Dasgupta (S P Jain School of Global Management, India)
1.30 P.M -1.45 P.M	1570696756	Predictive Analytics of Donors in Crowdfunding Platforms: A Case Study on Donorschoose.org	Joel Varma Dirisam and Doina Bein (California State University, Fullerton, USA); Abhishek Verma (New Jersey City University, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 26: SECURITY, TRUST AND PRIVACY****SESSION CHAIR: JING GUO (CALIFORNIA STATE UNIVERSITY, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698139	MCTA: Mobile-Coverage Scheme Based on Trust-Aware for Hybrid WSNs	Chunyang Qi, Jie Huang, Xuejin Zhu and Xiaowen Wang (Southeast University, China)
12.45 P.M - 1.00 P.M	1570696245	Application of the Spectra of Graphs in Network Forensics	Chuck Easttom (Georgetown University, USA)
1.00 P.M - 1.15 P.M	1570696121	A Survey on Security Attacks and Solutions in the IoT Network	Xingwei Liang and Yoohwan Kim (University of Nevada, Las Vegas, USA)
1.15 P.M - 1.30 P.M	1570696247	On the Use of the SSIM Algorithm for Detecting Intellectual Property Copying in Web Design	Chuck Easttom (Georgetown University, USA)
1.30 P.M - 1.45 P.M	1570696148	CryptoRevoke: A Cryptographic Accumulator Based Distributed Certificate Revocation List	Ilker Ozcelik (Recep Tayyip Erdogan University, Turkey); Anthony Skjellum (University of Tennessee at Chattanooga, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 27 : ROBOTICS AND HUMAN COMPUTER INTERACTION****SESSION CHAIR: RAJAB CHALLOO (TEXAS A&M UNIVERSITY-KINGSVILLE, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570696261	Semiotic Recognition System	Ratik Shetty and Doina Bein (California State University, Fullerton, USA); Marian Sorin Nistor (Universität der Bundeswehr München, Germany); Stefan Pickl (UBw Munich & COMTESSA, Germany)
12.45 P.M -1.00 P.M	1570696818	AR/VR Tutorial Systems for Human-Robot Teaming	Colin R Jones (United States Military Academy, USA); Michael Novitzky (United States Military Academy & Robotics Research Center, USA); Christopher Korpela (United States Military Academy, USA)
1.00 P.M -1.15 P.M	1570698387	Performance of Single Board Computers for Vision Processing	Curtis Manore, Pratheek Manjunath and Dominic Larkin (United States Military Academy, USA)
1.15 P.M -1.30 P.M	1570696895	Credibility-Based Countermeasure Against Slow HTTP DoS Attacks by Using SDN	You-Chiun Wang (National Sun Yat-Sen University, Taiwan); Ren-Xuan Ye (National Sun Yat-sen University, Taiwan)
1.30 P.M -1.45 P.M	1570698174	Digital Transformation as an Agent of Change in a Pharmaceutical Industry From the Perspective of Dynamic Capabilities	Marcelo Okano (CEETEPS and Faculdade de Tecnologia da UNICAMP); Henry de Castro Lobo dos Santos (Universidade Estadual de Campinas & Faculdade de Tecnologia, Brazil); Edson Ursini (University of Campinas, Brazil); William Honorato (CEETEPS, Brazil); Rosinei Ribeiro (CEETEPS and UNIFATEA, Brazil)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 28: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**  
**SESSION CHAIR: HAILU BELAY (MORGAN STATE UNIVERSITY, USA)**  
**SESSION TIME: 12.30 P.M - 1.45 P.M**

**PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570696848	An Initial Deep CNN Design Approach for Identification of Vehicle Color and Type for Amber and Silver Alerts	Uma Kamatchi Kesava Pillai and Damian Valles (Texas State University, USA)
12.45 P.M -1.00 P.M	1570696779	Simple Automated Narrative Generator (SANG)	Purvish Khalpada and Sanjay Garg (Nirma University, India)
1.00 P.M -1.15 P.M	1570696760	Station-Level Demand Prediction for Bike-Sharing System	Arthi Ramesh, Sai Pavani Nagiseti, Nikhil Sridhar, Kenytt Avery and Doina Bein (California State University, Fullerton, USA)
1.15 P.M -1.30 P.M	1570696944	Geometrical Study of the Scar in Left Ventricle Using TDA	Yashbir Singh (Mayo Clinic, Rochester, USA); Deepa S (Chung Yuan Christian University, Taiwan); Wathiq Mansoor (University OF Dubai, United Arab Emirates); Weichih Hu (Chung Yuan Christian University, Taiwan)
1.30 P.M -1.45 P.M	1570697049	Design and Feasibility Analysis of NSUGT A Machine Learning Based Mobile Application for Education	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Nusrat Jahan, Tasfiqul Ghani and Sadman Hossain Ridoy (North South University, Bangladesh)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 29: SECURITY, TRUST, PRIVACY****SESSION CHAIR: CASIMER DECUSATIS (MARIST COLLEGE, USA)****SESSION TIME: 12.30 P.M - 1.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570696545	Forensic Requirements Specification for Mobile Device Malware Forensic Models	Abdullah M Alashjaee (University of Idaho & Northern Borders University, USA); Michael Haney (University of Idaho, USA)
12.45 P.M -1.00 P.M	1570696284	Evaluation of Recurrent Neural Networks for Detecting Injections in API Requests	Sujan Reddy A (National Institute of Technology Surathkal, Karnataka, India); Bhawana Rudra (National Institute of Technology Karnataka, Surathkal, India)
1.00 P.M -1.15 P.M	1570697424	A Multi-Layered Defense Approach to Safeguard Against Ransomware	Alexander Pagán, Jr. (University of Bridgeport, USA); Khaled M. Elleithy (School of Engineering, University of Bridgeport, USA)
1.15 P.M -1.30 P.M	1570696698	Improving Physical Layer Security of Two-Way Cooperative DF System Using Modulation Diversity	M. Ajmal Khan (Ohio Northern University, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 30: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: OKECHUKWU UGWEJE (UNIVERSITY OF MOUNT UNION, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698628	Anonymous Prediction of Mental Illness in Social Media	Srikanth Tadisetty (Kent State University, USA); Kambiz Ghazinour (State University of New York in Canton, USA)
12.45 P.M -1.00 P.M	1570698689	EEG-Based Image Classification Using Machine Learning Algorithms	Jahnavi Kachhia (California state University Fullerton, USA); Kiran George (California State University, Fullerton, USA)
1.00 P.M -1.15 P.M	1570698694	Recommend Speciality Doctor From Health Transcription: Ensemble Machine Learning Approach	Nafiz Sadman (Silicon Orchard R&D lab, USA); Md Habibur Rahman (Silicon Orchard Ltd, USA); Sumaiya Tasneem (Silicon Orchard Lab, USA); Mohd Ariful Haque (Silicon Orchard R&D lab, USA); Kishor Datta Gupta (University of Memphis, USA)
1.15 P.M -1.30 P.M	1570698699	Medical Prescription Recognition Using Machine Learning	Lobna Shaheen (Misr International University, Egypt); Walaa Hassan (Walaa H. Elashmwai & Misr International University, Egypt); Esraa Hassan and Mai Hazem (Misr International University, Egypt); Shaza Bahnacy (Shaza Bahnacy, Egypt); Habiba Tarek (Habiba Tarek, Egypt)
1.30 P.M -1.45 P.M	1570698748	Using Artificial Intelligence in Enhancing Banking Services	Mohamed H. Elgazzar (Vodafone International Services, Egypt); Aya Tarek Elrefai (Business Information Systems, Faculty of Commerce & Business Administration, Helwan University & MSA, Egypt)

**All the timings are given in Eastern Standard Time (EST (GMT-5))****BREAK****1.45 P.M – 2.00 P.M**

## PARALLEL SESSIONS

### SESSION 31: SECURITY, TRUST AND PRIVACY

**SESSION CHAIR: JOEL COFFMAN (UNITED STATES AIR FORCE ACADEMY, USA)**

**SESSION TIME: 2.00 P.M - 3.00 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 P.M – 2.15 P.M	1570697526	Parallel, True Random Number Generator (P-TRNG): Using Parallelism for Fast True Random Number Generation in Hardware	Thomas Arciuolo (University of Bridgeport, USA); Khaled M. Elleithy (School of Engineering, University of Bridgeport, USA)
2.15 P.M - 2.30 P.M	1570697957	Discord Forensics: The Logs Keep Growing	Kyle Moffitt, Umit Karabiyik, Shinelle Hutchinson and Yung Han Yoon (Purdue University, USA)
2.30 P.M - 2.45 P.M	1570698455	ML Based NIDS to Secure RPL From Routing Attacks	Mohammed Kareem (California State University, USA); Shahab Tayeb (California State University, Fresno, USA)
2.45 P.M - 3.00 P.M	1570698488	Wireless Encryption and WPA2 Weaknesses	Kyle Moissinac, David Ramos, Giovanna Rendon and Abdelrahman Elleithy (William Paterson University, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 32: ARTIFICIAL INTELLIGENCE AND MACHINE LAERNING****SESSION CHAIR :PAUL SAMUEL IGNACIO (UNIVERSITY OF THE PHILIPPINES BAGUIO, PHILIPPINES)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698749	Modeling the Operating Characteristics of IoT for Underwater Sound Classification	Christos C Constantinou and Erricos Michaelides (Cyprus Marine and Maritime Institute, Cyprus); Ilias Alexopoulos (University of Nicosia Research Foundation, Cyprus); Theofylaktos Pieri (Cyprus University of Technology, Cyprus); Stelios Neophytou and Ioannis Kyriakides (University of Nicosia Research Foundation, Cyprus); Ehson Abdi and Jerald Reodica (Cyprus Subsea Consulting and Services LTD, Cyprus); Daniel Hayes (Cyprus Subsea Consulting and Services, C.S.C.S. Ltd, Cyprus)
2.15 P.M - 2.30 P.M	1570698757	Using a Raspberry Pi to Prevent an Intoxicated Driver From Operating a Motor Vehicle	Jack McShane (Letterkenny Institute of Technology, Ireland); Mandy Douglas (Institute of Technology, Letterkenny, Ireland); Kevin Meehan (Letterkenny Institute of Technology, Ireland)
2.30 P.M - 2.45 P.M	1570698760	A Hybrid Probabilistic Ensemble Based Extreme Gradient Boosting Approach for Breast Cancer Diagnosis	Muhammad Sakib Khan Inan and Rizwan Hasan (East Delta University, Bangladesh); Fahim Alam (University of Chittagong, Bangladesh)
2.45 P.M - 3.00 P.M	1570698766	Data Quality Visual Analysis (DQVA)	Célio Carvalho (Universidade Fernando Pessoa, Portugal); Rui Silva Moreira (UFP, Portugal); José Manuel Torres (University Fernando Pessoa & LIACC, Portugal)
3.00 P.M - 3.15 P.M	1570698771	Improved Sampling and Feature Selection to Support Extreme Gradient Boosting for PCOS Diagnosis	Muhammad Sakib Khan Inan (East Delta University, Bangladesh); Rubaiath E Ulfath (Chittagong University of Engineering & Technology, Bangladesh); Fahim Alam (University of Chittagong, Bangladesh); Fateha Bappee (Dalhousie University, Canada); Rizwan Hasan (East Delta University, Bangladesh)
3.15 P.M – 3.30 P.M	1570698781	Classifying Sound Sources Based on Directions Using Audio Visual Stimulus	Urmil P Shah (California State University, Fullerton, USA); Jonathan Wong (California State University Fullerton, USA); Kiran George (California State University, Fullerton, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**



**SESSION 33: SECURITY , ROBOTICS AND COMPUTER GRAPHICS****SESSION CHAIR: FADI MUHEIDAT (CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698591	Red-Blue Team Exercises for Cybersecurity Training During a Pandemic	Casimer DeCusatis, Joseph Bavaro, Thomas Cannistraci, Brendan Griffen, James Jenkins and Matthew Ronan (Marist College, USA)
2.15 P.M - 2.30 P.M	1570698801	Design and Evaluation of Cascading Cuckoo Filters for Zero-False-Positive Membership Services	Sai Medury (University of Tennessee at Chattanooga, USA); Amani Altarawneh (University of Tennessee At Chattanooga, USA); Anthony Skjellum (University of Tennessee at Chattanooga, USA)
2.30 P.M - 2.45 P.M	1570698830	Towards a Secured Blockchain-Based Smart Grid	Salma Samy (Faculty of Engineering, Alexandria University, Egypt); Mohamed Azab (Virginia Military Institute, USA); Mohamed Rizk (Faculty of Engineering, Alexandria University, Egypt)
2.45 P.M - 3.00 P.M	1570698883	Modeling the Tidal Locking Mechanism of the Moon in Function of the Inverse-Square Law and Hooke's Law	Jongmin Kim (Hankuk Academy of Foreign Studies, Korea)
3.00 P.M - 3.15 P.M	1570696293	Survey of the Development of Quantum Cryptography and Its Applications	Daniel Alvarez and Yoohwan Kim (University of Nevada, Las Vegas, USA)
3.15 P.M – 3.30 P.M	1570698843	Unmanned Aerial Vehicle (UAV) Kill Chain: Purple Teaming Tactics	Fahad Salamh and Umit Karabiyik (Purdue University, USA); Marcus K Rogers (Purdue, USA); Eric Matson (Purdue University, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 34: EMBEDDED SYSTEMS , GREEN COMPUTING AND LOGIC DESIGN****SESSION CHAIR: HAKDURAN KOC (UNIVERSITY OF HOUSTON - CLEAR LAKE, USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698323	A Fast Stacker Based on Symmetric Stacking, Multiplexing, and Barrel-Shifting	Uttam Kumar and Adly T. Fam (University at Buffalo, USA)
2.15 P.M - 2.30 P.M	1570697061	Fastest Finger First - Educational Quiz Buzzer' Using Arduino and Seven Segment Display for Easier Detection of Participants	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Nazifa Tasneem and Yakut Marzan (North South University, Bangladesh)
2.30 P.M - 2.45 P.M	1570696747	Multi-Objective Grid Scheduling for Battery Exchange Stations in Battery Consolidation Systems	Dara Nyknahad (University of Nevada Las Vegas, USA); Wolfgang Bein (University of Nevada, Las Vegas, USA); Laxmi Gewali and Rojin Aslani (University of Nevada Las Vegas, USA)
2.45 P.M - 3.00 P.M	1570697851	Energy Efficient Smart Antenna Beamforming Algorithms for Next-Generation Networks	Hailu Kassa Belay and Kevin Kornegay (Morgan State University, USA); Ebrima Ceesay (John Hopkins University, USA)
3.00 P.M - 3.15 P.M	1570698785	Precision Power Measurements of FPGA-MPSoCs	Robert Drehmel (Technische Universität Berlin, Germany); Markus Hefele (Technical University Munich, Germany)
3.15 P.M – 3.30 P.M	1570698441	Precoding for Multi-User MIMO Interference Channel: A Signal Set Separation Problem	Xuechen Xie (Georgia Institute of Technology, USA); Yong Jin Daniel Kim (Rose-Hulman Institute of Technology, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 35: MOBILE AND WIRELESS COMPUTING****SESSION CHAIR: TUTOMU MURASE (NAGOYA UNIVERSITY, JAPAN)****SESSION TIME: 2.00 P.M - 3.15 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698869	Peer-To-Peer Assisted Off-Grid Message Dissemination in the Failure of Communication Infrastructures	Zhaohong Wang and Jing Guo (California State University, Chico, USA)
2.15 P.M - 2.30 P.M	1570696174	Task Processing Energy Minimization Based on Hybrid Mode in D2D-Enabled Fog Network	Abdalfatah A. Almahi, Xiaoge Huang and Qianbin Chen (Chongqing University of Posts and Telecommunications, China)
2.30 P.M - 2.45 P.M	1570696463	Comparison and Analysis Performance in Topology-Based Routing Protocols in Vehicular Ad-Hoc Network (VANET)	Mohammed Rajhi (University of California Santa Cruz, USA & Jazan University, Saudi Arabia); Hatim Madkhali (University of California Santa Cruz, Saudi Arabia & Jazan University, USA); Ibrahim Daghri (Jazan University, Saudi Arabia)
2.45 P.M - 3.00 P.M	1570697063	Design and Feasibility Analysis of an Artificial Intelligence Based Mobile App for Emergency Ambulance	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
3.00 P.M - 3.15 P.M	1570695851	A Single-Band 28.5GHz Rectangular Microstrip Patch Antenna for 5G Communications Technology	Fardeen Mahbub, Rashedul Islam, Sayed Abdul Kadir Al-Nahiun and Shouherdho Banerjee Akash (American International University-Bangladesh, Bangladesh); Raja Rashidul Hasan (American International University Bangladesh, Bangladesh); Md. Abdur Rahman (American International University-Bangladesh (AIUB), Bangladesh)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 36: WIRELESS COMMUNICATIONS****SESSION CHAIR: WILLIAM HEADLEY(VIRGINIA TECH, USA)****SESSION TIME: 2.00 P.M - 3.15 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698710	Optimal Placement of Single Cluster Head in Wireless Sensor Networks via Clustering	Ahmed Al Hilli, Mohanad Al-Ibadi and Zahraa Hammodi (Al-Furat Al-Awsat Technical University, Iraq)
2.15 P.M - 2.30 P.M	1570698879	Logarithmic Non-Uniform Quantization for List Decoding of Polar Codes	Mohammad Rowshan and Emanuele Viterbo (Monash University, Australia); Rino Micheloni and Alessia Marelli (Microsemi, Italy)
2.30 P.M - 2.45 P.M	1570698754	A Wearable Mobile-App Controlled Device for Continuous Monitoring of UV Exposure and Hydration Levels	Hayley E. Rutkey, Courteney DiDomenico, Tin Wong, Chen-Hsiang Yu, Joseph M Martel and Ali Kiapour (Wentworth Institute of Technology, USA)
2.45 P.M - 3.00 P.M	1570698832	Improved and Efficient Dual-Hop Relaying System	M. Ajmal Khan (Ohio Northern University, USA)
3.00 P.M - 3.15 P.M	1570698857	Shifted Pruning for Path Recovery in List Decoding of Polar Codes	Mohammad Rowshan and Emanuele Viterbo (Monash University, Australia)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**DAY: 4****30<sup>th</sup> January, 2021**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	<b>PARTICIPATION LINK</b>
<b>10.00 A.M – 10.45 A.M</b>	<b>KEYNOTE ADDRESS BY JULIA HIRSCHBERG (PROFESSOR, COLUMBIA UNIVERSITY, USA)</b> <b>TITLE OF TALK: WHO DO YOU TRUST? CUES TO DECEPTION AND TRUST IN TEXT AND SPEECH</b>	
<b>10:45 A.M – 11.30 A.M</b>	<b>KEYNOTE ADDRESS BY ALAN BOVIK (PROFESSOR, THE UNIVERSITY OF TEXAS AUSTIN, USA)</b> <b>TITLE OF TALK: HERE COMES EVEN MORE VIDEO DATA: HIGH FRAME RATES, COMPRESSION, AND VIDEO QUALITY</b>	
<b>11.30 A.M - 12.15 P.M</b>	<b>KEYNOTE ADDRESS BY MARTIN FÜRER (PENNSYLVANIA STATE UNIVERSITY, USA)</b> <b>TITLE OF TALK: ON THE CONSTRUCTION AND USE OF TREE DECOMPOSITIONS</b>	

**12.15 P.M – 12.30 P.M****BREAK****All the timings are given in Eastern Standard Time (EST (GMT-5))**

## PARALLEL SESSIONS

### SESSION 37: MOBILE AND WIRELESS COMPUTING AND BIOINFORMATICS

**SESSION CHAIR: M. AJMAL KHAN (OHIO NORTHERN UNIVERSITY, USA)**

**SESSION TIME: 12.30 P.M - 1.45 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12.30 P.M - 12.45 P.M	1570696752	Microstrip Patch Antenna for the Applications of WLAN Systems Using S-Band	Fardeen Mahbub, Shouherdho Banerjee Akash, Sayed Abdul Kadir Al-Nahion and Rashedul Islam (American International University-Bangladesh, Bangladesh); Raja Rashidul Hasan (American International University Bangladesh, Bangladesh); Md. Abdur Rahman (American International University-Bangladesh (AIUB), Bangladesh)
12.45 P.M -1.00 P.M	1570697523	Survey on Context-Aware Healthcare Systems	Hamed Vahdat-Nejad (University of Birjand, Iran); Wathiq Mansoor (University OF Dubai, United Arab Emirates)
1.00 P.M -1.15 P.M	1570696923	Personalized Safety Instruction Recommendation for Construction Workers Based on Apriori Algorithm	Ning Tang, Hao Hu and Feng Xu (Shanghai Jiao Tong University, China)
1.15 P.M -1.30 P.M	1570698477	Improving System Performance in Indoor Environment by Designing Femtocell Considering Interference and Mobility Management	Mirza Mohd Shahriar Maswood, Uzzwal Kumar Dey and Sonia Akter (Khulna University of Engineering & Technology, Bangladesh); Md Ashif Uddin (Khulna University, Bangladesh); Md Mainul Islam Mamun (University of Missouri-Kansas City, USA); Shamima Sultana Sonia (Khulna University of Engineering & Technology, Bangladesh); Abdullah G. Alharbi (University of Missouri - Kansas City, MO, USA)
1.30 P.M -1.45 P.M	1570698877	COVID-19 Case Number Prediction Utilizing Dynamic Clustering With Polynomial Regression	Tiffany Zhan (University of Nevada Las Vegas/AEOP, USA); Felix Zhan (UNLV, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**

**SESSION 38: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****SESSION CHAIR: MUHAMMAD S. ULLAH (FLORIDA POLYTECHNIC UNIVERSITY, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698813	Natural Language Controlled Real-Time Object Recognition Framework for Household Robot	Ruchi Ramesh Bagwe (California state University Fullerton, USA); Rashika Natharani, Kiran George and Anand Panangadan (California State University, Fullerton, USA)
12.45 P.M -1.00 P.M	1570698861	Classification Models of Text: A Comparative Study	Felix Zhan (US Online Tutoring Academy, USA); Tiffany Zhan (University of Nevada Las Vegas/AEOP, USA)
1.00 P.M -1.15 P.M	1570698840	Artificial Intelligence Bias Minimization via Random Sampling Technique of Adversary Data	Muath Obaidat (City University of New York, USA)
1.15 P.M -1.30 P.M	1570698860	Highway Accident Severity Prediction for Optimal Resource Allocation of Emergency Vehicles and Personnel	Hani Alnami and Imad Mahgoub (Florida Atlantic University, USA); Hamzah Al-Najada (NextEra Energy Inc. & Florida Atlantic University, USA)
1.30 P.M -1.45 P.M	1570698865	Decoding Linguistic Ambiguity in Times of Emergency Based on Twitter Disaster Datasets	Austine Hembree, Andrew Beggs, Tiffany Marshall and Ebrima Ceesay (George Mason University, USA)

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**SESSION 39: PATTERN RECOGNITION AND SIGNAL PROCESSING****SESSION CHAIR: ANKITA MOHAPATRA (CALIFORNIA STATE UNIVERSITY, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698147	Identifying User Authentication and Most Frequently Used Region Based on Mouse Movement Data: A Machine Learning Approach	Md. Muhaimenur Rahman and Sarnali Basak (Jahangirnagar University, Bangladesh)
12.45 P.M -1.00 P.M	1570698719	Statistical Post-Processing Approaches for Active Infrared Thermography: A Comparative Study	Kirandeep Kaur and Ravibabu Mulaveesala (Indian Institute of Technology Ropar, India)
1.00 P.M -1.15 P.M	1570696767	Image Enhancement by Recursive Correction of Its Average Brightness	Yuriy Romanyshyn (Lviv Polytechnic National University, Ukraine); Sergei Yelmanov (Special Design Office of Television Systems, Ukraine)
1.15 P.M -1.30 P.M	1570694343	Channel Equalization for Converged OFDM-Based 5G Mm-Wave A-RoF System at 60 GHz	Umar Farooq and Amalia N. Miliou (Aristotle University of Thessaloniki, Greece)
1.30 P.M -1.45 P.M	1570698873	Joint Activity Localization and Recognition With Ultra Wideband Based on Machine Learning and Compressed Sensing	Long Cheng (ABB Inc., USA); Yifan Wang (Rensselaer Polytechnic Institute, USA); Ruogu Jin (Claremont McKenna College, USA); Kangnan Dong (California State University San Marcos, USA); Zhaoqi Wu (University of Illinois at Urbana-Champaign, USA); Yuanchen Zhao (New York University, USA)

**All the timings are given in Eastern Standard Time (EST (GMT-5))**



**SESSION 40: CONTROL SYSTEMS AND APPLICATIONS****SESSION CHAIR: STEFAN PICKL (UBW MUNICH, GERMANY)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570696664	Computation of Stabilizing Decentralized PI Controllers for Fractional Order TITO (FOTITO) Systems	Miray Gunay Bulut (University of Adiyaman, Turkey); Furkan Nur Deniz (University of Inonu, Turkey)
12.45 P.M -1.00 P.M	1570698750	An Applied Survey With ESP8266 Lolin + Shield Base With Nextion Touchscreen Display	Antonio Carlos Bento (Tecnológico de Monterrey, Brazil); Marcelo Galdino (Pontifícia Universidade Católica de São Paulo, Brazil); Ellen da Silva (Centro Universitário ENIAC, Brazil); José Gomes Júnior (Universidade São Judas Tadeu, Brazil)
1.00 P.M -1.15 P.M	1570694317	Energy Consumption Analyses for Unmanned Aerial Systems Used in Disaster Management	Abu S Asaduzzaman and Abhignan Telakapalli (Wichita State University, USA); Fadi Sibai (Prince Mohammad Bin Fahd University, Saudi Arabia)
1.15 P.M -1.30 P.M	1570698573	Adaptive Model Predictive Control for a TORA System Under Initial Axial and Angular Position Dispersions	Fawaz Al-Bakri (Al-Furat Al-Awsat Technical University, Iraq); Salwan Obaid Waheed Khafaji (University of Babylon/, Iraq & College of Engineering, USA); Hasan Ali (Ministry of Higher Education, Iraq); Laheeb Muhi (University of Missouri/Columbia (USA), USA)
1.30 P.M -1.45 P.M	1570698630	PLC Based a Robust Solution for an Urban Area Water System Dilemma	Abdulbasit Alaribi (Graduate, Libya); Abbas Elazhari (University of Windsor, Canada); Omar A. Zargelin (Al Zintan University, Libya)

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**SESSION 41: PARALLEL ALGORITHM AND SOFTWARE ENGINEERING****SESSION CHAIR: ZHAOHONG WANG (CALIFORNIA STATE UNIVERSITY, USA)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698307	A Survey of Teaching PDC Content in Undergraduate Curriculum	Xiaoyuan Suo (Webster University, USA); Olga Glebova (Georgia State University, USA); David Liu (Purdue University Fort Wayne, USA); Alina Lazar (Youngstown State University, USA); Doina Bein (California State University, Fullerton, USA)
12.45 P.M -1.00 P.M	1570698595	Partitioning Mesh for Workload Balance According to the Capability of Each Computing Node	Gan Luo and Zhi-guo Zhang (Sun Yat-sen University, China)
1.00 P.M -1.15 P.M	1570698888	Towards Embedding Data Provenance in Files	Thye Way Phua and Vimal Kumar (University of Waikato, New Zealand); Panagiotis Patros (University of Waikato, New Zealand & University of New Brunswick, Canada)
1.15 P.M -1.30 P.M	1570695866	Test Suite Prioritization With Element and Event Sequences for Android Applications	Ryan P Michaels (St Edward's University & University of North Texas, USA); Md Khorrom Khan and Renee Bryce (University of North Texas, USA)
1.30 P.M -1.45 P.M	1570696035	An Optimum Strategy to Control Peltier Device Cold Side Temperature	Thisuri Indiketiya (University of Ruhuna, Sri Lanka)

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**SESSION 42: WIRELESS COMMUNICATION****SESSION CHAIR: EDSON URSINI (UNIVERSITY OF CAMPINAS, BRAZIL)****SESSION TIME: 12.30 P.M - 1.45 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
12.30 P.M - 12.45 P.M	1570698321	Short Interval Solar Power Prediction for Energy Harvesting With Low Computation Cost on Edge Computation Network	Yue Chen and Xing Chen (Beijing Information Science and Technology University, China); Yanxin Yao (Beihang University, China); Bei Wan (Beijing Information Science and Technology University, China)
12.45 P.M -1.00 P.M	1570697057	Performance Analysis of Double-Threshold Based Multi-Relay Selection With Differential Modulation for Cooperative D2D Network	Shamganth Kumarapandian (University of Technology and Applied Sciences-Ibra, Oman); Qasim Zeeshan Ahmed (University of Huddersfield, United Kingdom (Great Britain))
1.00 P.M -1.15 P.M	1570695505	A Sensor-Based Garbage Gas Detection System	Junaidy B Sanger and Lanny Sitanayah (Universitas Katolik De La Salle Manado, Indonesia); Imam Ahmad (Universitas Teknokrat Indonesia, Indonesia)
1.15 P.M -1.30 P.M	1570693711	Mobility Management in HetNets Consider on QOS and Improve Throughput	Fereshteh Atri Niasar (Islamic Azad Yadegar-e-Imam Khomeini ( Tehran Power Distribution Company), Iran); Mohammad Nabipour (University Yadegare Emam Shahre Rey, Iran); Amir Reza Momen (University of Shahre-Rey, Iran); Mohammad Jalilvand Aghadam Bonab (Islamic Azad University, Iran)
1.30 P.M -1.45 P.M	1570695277	Modified Gram Schmidt Based Chaotic Matrix for Compressive Sensing in Cognitive Radio	Hadeel S. Abed and Hikmat N. Abdullah (Al-Nahrain University, Iraq)

**All the timings are given in Eastern Standard Time (EST (GMT-5))****BREAK****1.45 P.M – 2.00 P.M**

## PARALLEL SESSIONS

### SESSION 43: SOFTWARE ENGINEERING AND COMMUNICATIONS SOFTWARE

**SESSION CHAIR: ABDELRAHMAN ELLEITHY (WILLIAM PATERSON UNIVERSITY, USA)**

**SESSION TIME: 2.00 P.M - 3.15 P.M**

**PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.00 P.M – 2.15 P.M	1570697558	3D Printed Capacitive Relative Pressure Sensor for the CAE Environment Use	Samia Achouch (Mohamed V in Rabat Morroco, Morocco)
2.15 P.M - 2.30 P.M	1570698770	Data Structures for Ordered Short Character-Sequences	Sudarshan S Chawathe (University of Maine, USA)
2.30 P.M - 2.45 P.M	1570698426	Evaluation of Machine Learning Architectures in Healthcare	Yash Verma (California State University, USA); Shahab Tayeb (California State University, Fresno, USA)
2.45 P.M - 3.00 P.M	1570698390	Monitoring and Data Processing Architecture Using the FIWARE Platform for a Renewable Energy Systems	Washington Velasquez (Escuela Superior Politecnica del Litoral, Ecuador); Luis Tobar-Andrade (Escuela Superior Politécnica del Litoral, Ecuador); Ivan Cedeno-Campoverde (Escuela Superior Politecnica del Litoral, Ecuador)
3.00 P.M - 3.15 P.M	1570698639	A Divide and Conquer Method With Semi-Global Failover for Software Defined Networks	Kasra Goravanchi (University Of Nevada, Las Vegas & Revolution EHR, USA); Yoohwan Kim and Ju-Yeon Jo (University of Nevada, Las Vegas, USA)
3.15 P.M -3.30 P.M	1570697420	Enhancing Object Detection Using Synthetic Examples	David Hughes (California State Polytechnic University, Pomona, USA); Hao Ji (California State Polytechnic University, Pomona, USA)

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**SESSION 44: CONTROL SYSTEMS AND APPLICATIONS****SESSION CHAIR: STEFAN PICKL (UBW MUNICH, GERMANY)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698787	An Open Source SCADA for a Solar Water Pumping System Designed for Pakistani Conditions	Usman Ashraf and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
2.15 P.M - 2.30 P.M	1570697948	Study of Complex Functions in Multi-Source Networks	Tri Minh Tran (Gunma University & Informatics Engineering, Japan)
2.30 P.M - 2.45 P.M	1570696591	Key Factors Influencing the Rise of Current Ransomware Attacks on Industrial Control Systems	Mazen Ali M Gazzan and Abdullah Mari J Alqahtani (University of Idaho, USA & Najran University, Saudi Arabia); Frederick T Sheldon (University of Idaho & University of Memphis, USA)
2.45 P.M - 3.00 P.M	1570696834	Multi-UAV Full-Duplex Communication Systems for Joint Video Transmission and Flight Control	Tao Yu, Shunya Imada and Kiyomichi Araki (Tokyo Institute of Technology, Japan); Kei Sakaguchi (Tokyo Institute of Technology & Fraunhofer HHI, Japan)
3.00 P.M - 3.15 P.M	1570696733	Joint Application of Sliding Window and Full-Vector RLNC for Vehicular Platooning	Elif Tasdemir and Christopher Lehmann (Technische Universität Dresden, Germany); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)
3.15 P.M – 3.30 P.M	1570693334	Designing the Clamp System With the Emergency Braking System in the Trains by Using PLC and SCADA	Aybike Üstündağ (Munzur University, Turkey); Çetin Gençer (Fırat University, Turkey)

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**SESSION 45: MOBILE AND WIRELESS COMPUTING****SESSION CHAIR: ADLY FAM(UNIVERSITY AT BUFFALO,USA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698479	A Novel Approach to Design the Cell of LTE Cellular Network to Improve the Call Quality and Coverage Area in Rural and Suburban Area	Mirza Mohd Shahriar Maswood and Uzzwal Kumar Dey (Khulna University of Engineering & Technology, Bangladesh); Md Ashif Uddin and Amit Kumar Ghosh (Khulna University, Bangladesh); Md Mainul Islam Mamun (University of Missouri-Kansas City, USA); Shamima Sultana Sonia (Khulna University of Engineering & Technology, Bangladesh); Abdullah G. Alharbi (University of Missouri - Kansas City, MO, USA)
2.15 P.M - 2.30 P.M	1570698670	Automatic Traffic Density Control System With Wireless Speed Limit Notification	Pramod Muttigarahalli Shankarappa (PES University, India); Ambar Bajpai (Atria Institute of Technology, Bengaluru, India)
2.30 P.M - 2.45 P.M	1570698722	Delay and Energy Balance for Unmanned Aerial Vehicle Networks	Muhammad I. Khalil (The University of Auckland, New Zealand)
2.45 P.M - 3.00 P.M	1570698777	Experimental Study on 3D Fractal Base Antennas Design for Efficient Wi-Fi Energy Harvesting	Riken Parekh (California State University Fullerton, USA); Urmil P Shah and Kiran George (California State University, Fullerton, USA)
3.00 P.M - 3.15 P.M	1570696643	Program Equivalence Checking for the Facilitation of Quantum Offloading	Jon Speer and Jukka K Nurminen (University of Helsinki, Finland)
3.15 P.M – 3.30 P.M	1570695947	Planning for NB-IoT Smart City Network Deployment in Bandung Areas	Maruli Tua Baja Sihotang, Muhammad Imam Nashiruddin and Muhammad Ary Murti (Telkom University, Indonesia)

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**SESSION 46: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**  
**SESSION CHAIR: DOINA BEIN (CALIFORNIA STATE UNIVERSITY, USA)**

**SESSION TIME: 2.00 P.M - 3.30 P.M**

**PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570698786	Analysis and Classification of Basketball Shooting Form Using Wearable Sensor Systems	Cheol-Hong Min (University of Saint Thomas, USA); Nathan Kuhlman (University of St. Thomas, USA)
2.15 P.M - 2.30 P.M	1570698794	Face Liveness Detection Using a Sequential CNN technique	Marwan Mohamed Nagah, Mohamed Abdelmonem and Mohamed Ahmed (Misr International University, Egypt)
2.30 P.M - 2.45 P.M	1570698798	Artificial Neural Networks for (Automotive) Embedded Control - A Comparative Study	Sven Dominka (Robert Bosch AG, Austria); Henrik Smith (Bosch Engineering & Robert Bosch AG, Austria); Benjamin Hartmann (Bosch Engineering GmbH, Germany)
2.45 P.M - 3.00 P.M	1570698800	Detection of High Germ Spreading Activities	Cheol-Hong Min (University of Saint Thomas, USA); Alex Eayrs (University of St. Thomas, USA)
3.00 P.M - 3.15 P.M	1570698805	Diabetes Prognosis Using White-Box Machine Learning Framework for Interpretability of Results	Pathan Faisal Khan and Kevin Meehan (Letterkenny Institute of Technology, Ireland)
3.15 P.M – 3.30 P.M	1570693152	TCP Congestion Control With Multiagent Reinforcement and Transfer Learning	Shahrukh Khan Kasi, Saptarshi Das and Subir Biswas (Michigan State University, USA)

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**SESSION 47: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, CONTROL THEORY****SESSION CHAIR: FAHIM ALAM (UNIVERSITY OF CHITTAGONG, BANGLADESH)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570692769	Detection and Classification of Power Quality Disturbances Using Variational Mode Decomposition and Convolutional Neural Networks	Weimin Deng (South China University of Technology); Da Xu and Yuhan Xu (South China University of Technology, China); Mengshi Li (South China University of Technology & The University of Liverpool, China)
2.15 P.M - 2.30 P.M	1570697608	Vulnerability Detection in C/C++ Source Code With Graph Representation Learning	Yuelong Wu, Jintian Lu, Yunyi Zhang and Shuyuan Jin (Sun Yat-sen University, China)
2.30 P.M - 2.45 P.M	1570692530	Exploring Trade-Offs in Parallel Beam-ACO	Suely Oliveira and David E Stewart (University of Iowa, USA); Jeff Hajewski (Salesforce & University of Iowa, USA); Laura Weiler (University of Iowa, USA)
2.45 P.M - 3.00 P.M	1570698070	A New Approach for Detection Alzheimer's Disease With Machine Learning Using Whole Genomic and Single Nucleotide Polymorphism-Chip Data	Ashraf AbdelRaouf, Ahmed Samir, Omar Ehab, Sara Elbedeawi, Lobna Shaheen, Nourhan Elsamanodie, Omar Eldemerdash, Rawan AL-Kady and Lamiaa Hammad (Misr International University, Egypt); Mohamed Shahin (University of Florida, Gainesville, USA)
3.00 P.M - 3.15 P.M	1570692543	Efficient Evolution of Variational Autoencoders	Jeff Hajewski (Salesforce & University of Iowa, USA); Suely Oliveira (University of Iowa, USA)
3.15 P.M – 3.30 P.M	1570698669	Kalman Filter and Its Application on Tuning PI Controller Parameters	Indrajit Pandey (Techno International New Town, India); Atanu Panda (IEM, India); Parijat Bhowmick (University of Manchester, United Kingdom (Great Britain))

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**SESSION 48: QUANTUM COMPUTING, HCI AND OPTICAL NETWORKS****SESSION CHAIR: GARIMA BAJWA (LAKEHEAD UNIVERSITY, CANADA)****SESSION TIME: 2.00 P.M - 3.30 P.M****PARTICIPATION LINK:**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
2.00 P.M – 2.15 P.M	1570696438	Implementation of Reversible Logic Gates With Quantum Gates	Mummadi Swathi (National Institute of Technology Karnataka, India); Bhawana Rudra (National Institute of Technology Karnataka, Surathkal, India)
2.15 P.M - 2.30 P.M	1570695841	Near Term Implementation of Shor's Algorithm Using Qiskit	Casimer DeCusatis and Emily Mcgettrick (Marist College, USA)
2.30 P.M - 2.45 P.M	1570693913	A Reliable Energy and Spectral Efficient Spectrum Sensing Approach for Cognitive Radio Based IoT Networks	Mohammad Amzad Hossain (National University of Ireland Galway, Ireland); Michael Schukat (Supervisor, Ireland); Enda Barrett (National University of Ireland Galway, Ireland)
2.45 P.M - 3.00 P.M	1570696451	An Experimental Study of TSN-NonTSN Coexistence	Sameer Chouksey and Hariram Satheesh (ABB, India); Johan Åkerberg (Malardalen University, Sweden)
3.00 P.M - 3.15 P.M	1570696110	A Scalable Multicast Hybrid Broadband Crossbar Wavelength Selective Switch for Datacenters	Akhilesh Sanjay Prabhu Khope (Microsoft Corporation, USA); Songtao Liu (Ayar Labs, USA); Rod Alferness (UCSB, USA); John E Bowers (University of California, USA); Adel A. M. Saleh (University of California - Santa Barbara, USA); Roger Helkey (Evidation Health, USA)
3.15 P.M – 3.30 P.M	1570698536	Noise Evolution and Analysis of Long Repeated/Regenerated IMDD Links	Fredy Francis (Indian Institute of Technology Madras, India); Manivasakan R (IIT, Chennai, India)

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## WORKSHOP

**Internet of Things (IoT) using Raspberry Pi virtual machines (VMs)**  
By  
**Dr. Phillip Bradford (University of Connecticut, Stamford, USA)**

**12.30 P.M – 3.30 P.M**

**Award Giving Ceremony**

**3.45 P.M – 4.00 P.M**

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