IEEE IEMCON-2020

The 11th Annual IEEE Information Technology, Electronics and Mobile Communication Conference
Virtual Conference, Vancouver, Canada
4th – 7th November, 2020

*All the timings are given in Pacific Standard Time (PST (GMT-8))
## TECHNICAL SCHEDULE

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<td>8:00 AM – 8:45 A.M</td>
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<td>BREAK</td>
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<td>SESSION1: WIRELESS SENSOR NETWORKS</td>
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<td>SESSION 8: VLSI AND MICROELECTRONIC CIRCUIT EMBEDDED</td>
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<td>BREAK</td>
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<td>SESSION12: ARTIFICIAL INTELLEGENCE</td>
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<td>SESSION14: DISTRIBUTED SYSTEMS AND IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY</td>
<td>3:00 P.M – 3:30 P.M</td>
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<td>SESSION16: SIGNAL DETECTION AND PROCESSING</td>
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<th>DAY 3</th>
<th>KEYNOTE 5 : SECURITY FOR QUANTUM NETWORKS</th>
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<td>KEYNOTE 6 : ALGORITHMIC THINKING FOR COMPUTATIONAL PUBLIC SAFETY (CPS)</td>
<td>9:15 A.M – 10:00 A.M</td>
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<td>SESSION17 : MACHINE LEARNING</td>
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<td>SESSION18 : BODY AND PERSONAL AREA NETWORKS AND ROBOTICS AND AUTONOMOUS SYSTEMS</td>
<td>10:15 A.M - 11:15 A.M</td>
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<td>SESSION 19 : INTERNET OF THINGS</td>
<td>10:15 A.M - 11:30 A.M</td>
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<td>SESSION20 : MOBILE COMPUTING AND MACHINE LEARNING</td>
<td>10:15 A.M - 11:30 A.M</td>
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<td>BREAK</td>
<td>11:30 A.M – 11:45 A.M</td>
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<td>SESSION21 : WIRELESS MULTICASTING, BROADCASTING AND GEOCASTING, SELF-ORGANISING NETWORKS, NETWORK ARCHITECTURES AND NETWORK SECURITY</td>
<td>11:45 A.M –1:00 P.M</td>
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<td>SESSION22 : FUTURE WIRELESS INTERNET, COOPERATIVE COMMUNICATIONS, CLOUD AND VIRTUAL NETWORKS AND ELECTRONIC INSTRUMENTATIONS</td>
<td>11:45 A.M –1:00 P.M</td>
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<td>SESSION 23 : BUSINESS INTELLIGENCE AND APPLICATIONS, EVOLUTIONARY COMPUTATION AND ALGORITHMS AND VISUALIZATION AND COMPUTER GRAPHIC</td>
<td>11:45 A.M –1:00 P.M</td>
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<td>SESSION 24 : IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY, SIGNAL DETECTION AND PROCESSING AND Electronic POWER CONVERTERS AND INVERTERS</td>
<td>11:45 A.M –1:00 P.M</td>
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<th>DAY 4</th>
<th>KEYNOTE 7: &quot;UNDERSTANDING LANGUAGE&quot; WITH DEEP LEARNING</th>
<th>8:30 A.M – 9:15 A.M</th>
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<td>KEYNOTE 8: HYPER-REALISTIC IMAGING FOR ENHANCED QUALITY OF EXPERIENCE</td>
<td>9:15 A.M – 10:00 A.M</td>
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<td>10:00 A.M – 10:15 A.M</td>
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<td>CLOSING CEREMONY</td>
<td>11:30 A.M – 11:45 A.M</td>
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<td>SESSION25: INFORMATION SECURITY AND ENCODING TECHNOLOGY, VISUALIZATION AND COMPUTER GRAPHIC, ELECTRONIC INSTRUMENTATIONS, CONTROL THEORY AND APPLICATIONS</td>
<td>10:15 A.M - 11:30 A.M</td>
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<td>SESSION26: ADAPTIVE CONTROL, INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS TECHNOLOGY, SOFTWARE ENGINEERING AND OTHERS</td>
<td>10:15 A.M - 11:30 A.M</td>
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<td>SESSION27: ELECTRONIC POWER CONVERTERS AND INVERTERS AND OTHERS</td>
<td>10:15 A.M - 11:15 A.M</td>
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<td>SESSION28: MACHINE LEARNING, INFORMATION RETRIEVAL AND OTHERS</td>
<td>10:15 A.M - 11:30 A.M</td>
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**D ****AY 1:**  
4\textsuperscript{th} November, 2020

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<td>8:00 A.M – 8:45 A.M</td>
<td>INAUGURATION</td>
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| 8:45 A.M – 9:30 A.M | KEYNOTE ADDRESS BY NISHANTH CHANDRAN (MICROSOFT RESEARCH, USA)  
TITLE OF TALK: PRIVACY-PRESERVING MACHINE LEARNING |
| 9:30 A.M – 10:15 A.M | KEYNOTE ADDRESS BY BEHROOZ PARHAMI (UNIVERSITY OF CALIFORNIA SANTA BARBARA, USA)  
TITLE OF TALK: HYBRID DIGITAL-ANALOG NUMBER REPRESENTATION IN COMPUTING AND IN NATURE |
| 10:15 A.M – 10:30 A.M | ---------------B R E A K------------------ |

*All the timings are given in Pacific Standard Time(PST (GMT-8))
**PARALLEL SESSIONS**

**SESSION 1: WIRELESS SENSOR NETWORKS**

**SESSION CHAIR: OKECHUKWU UGWEJE (UNIVERSITY OF MOUNT UNION, USA & NILE UNIVERSITY OF NIGERIA, NIGERIA)**

**SESSION TIME: 10:30 A.M – 11:45 A.M**

**PARTICIPATION LINK: LINK WILL BE SHARED TO YOU BY EMAIL**

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<td>10:30 A.M – 10:45 A.M</td>
<td>1570670691</td>
<td>Wireless Sensor Networks Fundamentals: A Review</td>
<td>Navid Heydarishahreza (Iran University of Science and Technology, Iran); Saeed Ebadollahi (IUST, Iran); Reza Vahidnia (British Columbia Institute of Technology, Canada); John Dian (BCIT, Canada)</td>
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<td>10:45 A.M – 11:00 A.M</td>
<td>1570673380</td>
<td>Drone Positioning System Based on Sound Signals Detection for Tracking and Photography</td>
<td>Ala' Tariq Abu Hilal and Thabet Mismar (Al Ain University, United Arab Emirates)</td>
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<td>11:00 A.M – 11:15 A.M</td>
<td>1570674141</td>
<td>An IoT-Alert System for Chronic Asthma Patients</td>
<td>Agrippina Wanjiru Mwangi (Carnegie Mellon University Africa, Rwanda); Emmanuel Ndashimye (Carnegie Mellon University Africa &amp; University of Rwanda, Rwanda); Sayan Kumar Ray (Manukau Institute of Technology, New Zealand); Bonaventure Karikumutima (University of Rwanda, Rwanda)</td>
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<td>11:15 A.M – 11:30 A.M</td>
<td>1570677825</td>
<td>Implementation and Analysis of Routing Protocols for LoRa Wireless Mesh Networks</td>
<td>Douglas de F Medeiros (Federal University of Paraiba (UFPB), Brazil); Mariana R Villarim (Federal University of Paraiba, Brazil); Fabricio Braga Soares de Carvalho (Federal University of Paraiba - UFPB, Brazil); Cleonilson Protasio de Souza (Federal University of Paraiba, Brazil)</td>
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<td>11:30 A.M – 11:45 A.M</td>
<td>1570678234</td>
<td>MAC Routing Protocol for Improving Efficiency in IEEE 802.15.4 Wireless Sensor Networks</td>
<td>Hosam El-Ocla (Lakehead University, Canada),</td>
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## SESSION 2: MACHINE LEARNING

**SESSION CHAIR:** HEBA ELGAZZAR (MOREHEAD STATE UNIVERSITY, USA)  
**SESSION TIME:** 10:30 A.M – 11:45 A.M  
**PARTICIPATION LINK:** Link will be shared to you by email

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<td>10:30 A.M – 10:45 A.M</td>
<td>1570673819</td>
<td>Low-Complexity High-Accuracy 5G and LTE Multichannel Spectrum Analysis Aided by Unsupervised Machine Learning</td>
<td>Benjamin Imanilov (Corning Research and Development Corporation, Israel)</td>
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<td>10:45 A.M – 11:00 A.M</td>
<td>1570668914</td>
<td>Leveraging Profanity for Insincere Content Detection - A Neural Network Approach</td>
<td>Swapna Gottipati, Annabel Tan, David Jing Shan and Joel Lim Wee Kiat (Singapore Management University, Singapore)</td>
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<td>11:00 A.M – 11:15 A.M</td>
<td>1570668985</td>
<td>A Systematic Literature Review in Causal Association Rules Mining</td>
<td>Shkurte Luma-Osmani and Florije Ismaili (South East European University, Macedonia, the former Yugoslav Republic of); Xhemal Zenuni (SEEU, Macedonia, the former Yugoslav Republic of); Bujar Raufi (South East European University, Republic of Macedonia, Monaco)</td>
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<td>11:15 A.M – 11:30 A.M</td>
<td>1570673174</td>
<td>A Transfer Learning Framework for Anomaly Detection Using Model of Normality</td>
<td>Sulaiman A. Aburakhia and Tareq Tayeh (Western University, Canada); Ryan Myers (National Research Council - Government of Canada, Canada); Abdallah Shami (Western University, Canada)</td>
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<td>11:30 A.M – 11:45 A.M</td>
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<td>Bayesian Program Learning for Modeling and Classification of RF Emitters</td>
<td>Neil Bomberger, Scott Kuzdeba and Thomas S. Brandes (BAE Systems, USA); Andrew Radlbeck (WPI, USA); Denis Garagic (Sarcos Robotics, USA)</td>
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<td>1570670136</td>
<td>Design and Evaluation of a Human-Controlled Haptic-Based Robotic Hand for Object Grasping and Lifting</td>
<td>Janchris Espinosa, Samantha Alexis Malubay, Melchizedek I Alipio, Alexander Abad, Valentino Asares Jr, Maria Jamelina Joven and Gabrielle Francesca Domingo (De La Salle University, Philippines)</td>
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<td>10:45 A.M – 11:00 A.M</td>
<td>1570672444</td>
<td>Survey of Agricultural Robot Applications and Implementation</td>
<td>Balasubramaniyan Chandrasekaran and Zubaidah Al-Mashhadani (Florida Polytechnic University, USA)</td>
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<td>11:00 A.M – 11:15 A.M</td>
<td>1570673130</td>
<td>An Experimental Survey with NodeMCU12e+Shield with TftNextion and MAX30102 Sensor</td>
<td>Antonio Carlos Bento (Tecnológico de Monterrey, Brazil)</td>
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<td>11:15 A.M – 11:30 A.M</td>
<td>1570673633</td>
<td>Analysis of Requirements for Autonomous Driving Systems</td>
<td>Felix Müller (Karlsruhe University of Applied Sciences, Germany); Philipp Nenninger (University of Applied Sciences Karlsruhe, Germany); Eric Sax (Karlsruhe Institute of Technology, Germany)</td>
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<td>11:30 A.M – 11:45 A.M</td>
<td>1570673957</td>
<td>Drones Swarm Recharging: Modeling Using Agent-Based Simulation</td>
<td>Leonardo Grando (University of Campinas, Brazil); Edson Ursini (College of Technology, Brazil); Paulo S Martins (University of Campinas (UNICAMP), Brazil)</td>
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<td>Offloading-Efficiency Maximization for Mobile Edge Computing in Clustered NOMA Networks</td>
<td>Mohammed W. Baidas (Kuwait University, Kuwait)</td>
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<td>10:45 A.M – 11:00 A.M</td>
<td>1570681251</td>
<td>Bepari: A Cost-Aware Comprehensive Agent Architecture for Opaque Cloud Services</td>
<td>Shahid Noor (Northern Kentucky University, USA); Mahmud Hossain (University of Alabama at Birmingham, USA); Rasib Khan (Northern Kentucky University, USA); Ragib Hasan (University of Alabama at Birmingham, USA); S. M. Riazul Islam (Sejong University, Korea (South))</td>
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<td>11:00 A.M – 11:15 A.M</td>
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<td>Radiation Safety Hazards of Cellular IoT Devices</td>
<td>Reza Vahidnia (British Columbia Institute of Technology, Canada); John Dian (BCIT, Canada)</td>
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<td>11:15 A.M – 11:30 A.M</td>
<td>1570676118</td>
<td>Recognizing Suicidal Intent in Depressed Population Using NLP: A Pilot Study</td>
<td>Samiha Binte Hassan (Undergraduate, Canada); Sumaiya Binte Hassan (University of British Columbia, Canada); Umme Zakia (Simon Fraser University, Canada)</td>
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<td>11:30 A.M – 11:45 A.M</td>
<td>1570677608</td>
<td>A Novel Website Development for Weather Notification System Using Smart Umbrella Based on Internet of Things</td>
<td>Mirza Mohd Shahriar Maswood and Uzzwal Kumar Dey (Khulna University of Engineering &amp; 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 &amp; Technology, Bangladesh); Moriom Akter (Khulna University, Bangladesh); Abdullah G. Alharbi (University of Missouri - Kansas City, MO, USA)</td>
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### SESSION 5: ARTIFICIAL INTELLIGENCE

**SESSION CHAIR:** YEHIYA KOTB (AMERICAN UNIVERSITY OF THE MIDDLE EAST, KUWAIT)

**SESSION TIME:** 12:00 P.M – 1:15 P.M

**PARTICIPATION LINK:** LINK WILL BE SHARED TO YOU BY EMAIL

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<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570669933</td>
<td>Graph Theory for Dimensionality Reduction: A Case Study to Prognosticate Parkinson's</td>
<td>Shithi Maitra (Sheba Platform Limited, Bangladesh); Tonmoy Hossain and Khan Md. Hasib (Ahsanullah University of Science and Technology, Bangladesh); Fairuz Shadmani Shishir (InsideMaps Inc., Bangladesh)</td>
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<td>12:30 P.M – 12:45 P.M</td>
<td>1570674125</td>
<td>CNN Based Detection of the Severity of Diabetic Retinopathy from the Fundus Photography Using EfficientNet-B5</td>
<td>Mirza Mohd Shahriar Maswood, Tasneem Hussain, Mohammad Badhruddouza Khan and Md Tobibul Islam (Khulna University of Engineering &amp; Technology, Bangladesh); Abdullah G. Alharbi (University of Missouri - Kansas City, MO, USA)</td>
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<td>12:45 P.M – 1:00 P.M</td>
<td>1570676874</td>
<td>Limits of AI as Established by a Multi-Layered Symmetry-Based Model of Light</td>
<td>Pravir Malik (Deep Order Technologies, USA)</td>
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<td>1:00 P.M – 1:15 P.M</td>
<td>1570677697</td>
<td>&quot;Can NLP Techniques Be Utilized as a Reliable Tool for Medical Science? - Building a NLP Framework to Classify Medical Reports</td>
<td>Nafiz Sadman, Sumaiya Tasneem and Md Ariful Haque (Silicon Orchard Lab, Bangladesh); Md Maminur Islam (University of Memphis, USA); Md Manjurul Ahsan (University of Oklahoma, USA); Kishor Datta Gupta (University of Memphis, USA)</td>
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### SESSION 6: CLOUD AND VIRTUAL NETWORKS AND INTERNET OF THINGS

**SESSION CHAIR:** WILLIAM H. BUTLER (CAPITOL TECHNOLOGY UNIVERSITY, USA)

**SESSION TIME:** 12:00 P.M – 1:15 P.M

**PARTICIPATION LINK:** Link will be shared to you by email

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<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570673941</td>
<td>Automotive Data Certification Problem: A View on Effective Blockchain Architectural Solutions</td>
<td>Cyril Naves (Universite Cote D Azur &amp; Renault Software Labs, France); Severine Glock and David Bercovitz (Renault Software Labs SAS, France); François Verdier (Université Côte d’Azur, LEAT, France); Patricia Guitton (Renault Software Labs SAS, France)</td>
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<td>12:30 P.M – 12:45 P.M</td>
<td>1570678528</td>
<td>DRP Analysis: Service Outage in Data Center Due to Power Failures</td>
<td>Andrea Gordón (Pontificia Universidad Católica del Ecuador, Ecuador); Gustavo Salazar (Universidad Nacional de la Plata - UNLP &amp; Pontificia Universidad Católica del Ecuador - PUCE, Ecuador)</td>
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<td>12:45 P.M – 1:00 P.M</td>
<td>1570680300</td>
<td>Blockchain-Based Cooperative Autonomous Detection of Suspicious Vehicles</td>
<td>Zachary Farr (Virginia Military Institute, USA); Mohamed Azab (Advanced Computing and Information Systems Laboratory, ECE, University of Florida &amp; Virginia Tech, USA); Effat Samir (Old Dominion University, USA)</td>
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<td>1:00 P.M – 1:15 P.M</td>
<td>1570673653</td>
<td>Odour Detection System for Allergy Sufferers</td>
<td>David Osemeojie Airehrour (Auckland University of Technology, New Zealand); Marianne Cherrington (University of Huddersfield, United Kingdom (Great Britain)); Kishore Rajagopal (Nelson Marlborough Institute of Technology, New Zealand)</td>
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<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570681344</td>
<td>Machine Learning for Revenue Forecasting: A Case Study in Retail Business</td>
<td>Ashok Kumar Pundir, L Ganapathy, Neeraj Kumar and Pratik Maheshwari (National Institute of Industrial Engineering, India)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570677789</td>
<td>An Evaluation of Millimeter-Wave Radar Sensing for Civil Infrastructure</td>
<td>Daniel Mitchell (Heriot-Watt University, United Kingdom (Great Britain)); Jamie R. D. Blanche (Heriot-Watt University &amp; Smart Systems Group, United Kingdom (Great Britain)); David Flynn (Heriot Watt University, United Kingdom (Great Britain))</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570681437</td>
<td>Interpretive Structural Modelling to Assess the Enablers of Blockchain Technology in Supply Chain</td>
<td>Ashok Kumar Pundir, L Ganapathy, Shashikant Thakur and Pratik Maheshwari (National Institute of Industrial Engineering, India)</td>
</tr>
<tr>
<td>1:00 P.M – 1:15 P.M</td>
<td>1570681492</td>
<td>An Adapter for IBM Streams and Apache Spark to Facilitate Multi-Level Data Analytics</td>
<td>Yinchen Shi (Queen's University, Canada); Sazia Mahfuz (Queens University, Canada); Farhana H. Zulkernine (Queen's University &amp; CA Canada, Canada); Pete Nicholls (IBM, Canada)</td>
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<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570673771</td>
<td>Design of Efficient Dynamic Scheduling of RISC Processor Instructions</td>
<td>Anudeep Bonasu and Sushanth Reddy Karmunchi (California State University Fresno, USA); Nan Wang (California State university, USA)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570677865</td>
<td>Reliability and Modelability Advantages of Distributed Switching for Reconfigurable 2D Processor Arrays</td>
<td>Behrooz Parhami (University of California, Santa Barbara, USA)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570681165</td>
<td>Advances in FPGA Based PWM Generation for Power Electronics Applications: Literature Review</td>
<td>Amean Al Safi (University of Thi-Qar, Iraq); Ali Al-Khayyat and Alyaa Manati (University of Thi-Qar, Iraq); Liqaa Alhafadhi (UniversitiSains Malaysia, Malaysia)</td>
</tr>
<tr>
<td>1:00 P.M – 1:15 P.M</td>
<td>1570681505</td>
<td>A Mamdani Fuzzy System Implementation on Arduino UNO and FPGA</td>
<td>Marcos Gutiérrez-López, Andy Montalvo-Fernández, Francisco J. Perez-Pinal and Jose A. Padilla-Medina (TecNM Celaya, Mexico); Alejandro I. Barranco-Gutierrez (CátedrasCONACyT - TecNM Celaya, Mexico)</td>
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<tr>
<td>8:30 A.M – 9:15 A.M</td>
<td>KEYNOTE ADDRESS BY MATTHEW KRIEGER (TECH. AT COBER, INC.)</td>
</tr>
<tr>
<td></td>
<td>TITLE OF TALK: IOT SECURITY – EVEN MORE COMPLEX THAN IT SEEMS</td>
</tr>
<tr>
<td>9:15 A.M – 10:00 A.M</td>
<td>KEYNOTE ADDRESS BY MARINA L. GAVRILLOVA (UNIVERSITY OF CALGARY, CANADA)</td>
</tr>
<tr>
<td></td>
<td>TITLE OF TALK: NEW GENERATION OF SOCIAL CONTEXT-BASED BIOMETRIC MULTI-MODAL SYSTEMS</td>
</tr>
<tr>
<td>10:00 A.M – 10:15 A.M</td>
<td>---------BREAK---------</td>
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## PARALLEL SESSIONS

### SESSION 9: COMPUTER NETWORK

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

**SESSION TIME:** 10:15 A.M – 11:15 A.M

**PARTICIPATION LINK:** LINK WILL BE SHARED TO YOU BY EMAIL

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<tbody>
<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570671033</td>
<td>Delay Optimisation for Multimedia Applications in a Wireless Network Control System (WNCS)</td>
<td>Oche Egaji (University of South Wales, United Kingdom (Great Britain)); Alison Griffiths and Mohammad S Hasan (Staffordshire University, United Kingdom (Great Britain))</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570673602</td>
<td>A Proposed Cyber Security Framework for Auditing in Financial Institutions</td>
<td>Hezel Matsikidze and Michael Kyobe (University of Cape Town, South Africa)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570673663</td>
<td>OpenSDN Southbound Traffic Characterization: Proof-Of-Concept Virtualized SDN-Infrastructure</td>
<td>Gustavo Salazar (Universidad Nacional de la Plata - UNLP &amp; Pontificia Universidad Católica del Ecuador - PUCE, Ecuador); Luis Marrone (Universidad Nacional de la Plata - UNLP, Argentina)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570677245</td>
<td>Efficient Bandwidth Management Using Geo Nearest Datacenter for Inter DCN and Optimal Path for Intra DCN to Optimize Bandwidth Cost</td>
<td>Mirza Mohd Shahriar Maswood and Shadman Rahman Doha (Khulna University of Engineering &amp; Technology, Bangladesh); Md Mainul Islam Mamun (University of Missouri-Kansas City, USA); Shamima Sultana Sonia (Khulna University of Engineering &amp; Technology, Bangladesh); Abdullah G. Alharbi (University of Missouri - Kansas City, MO, USA)</td>
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<tbody>
<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570671540</td>
<td>OMSAC - Ontology of Microservices Architecture Concepts</td>
<td>Gabriel Morais (Université du Québec à Rimouski &amp; Desjardins, Canada); Mehdî Adda (University of Quebec at Rimouski, Canada)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570678524</td>
<td>Chatbot Implementation to Collect Data on Possible Covid-19 Cases and Release the Pressure on the Primary Health Care System</td>
<td>Carlos Carrión Betancourt (University of Campinas, Brazil); Wilmer Stalin Erazo Navarrete and German Patricio Guerrero Fiallos (Universidad de las Américas, Ecuador); Ivan Ricardo Sanchez Salazar (Universidad de las Américas &amp; Universidad de Malaga, Ecuador)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570680419</td>
<td>Shilpa: A Novel Neural Based Approach for Measuring Human Stress Level</td>
<td>Yapa Hetti Pathirannahalage Priyadarshana (University of Moratuwa, Sri Lanka); Darshana Nuwan Jayarathna (Sri Lanka Institute of Information Technology, Sri Lanka); Dulshan Thanthilage (SLIIT, Sri Lanka); Thilini Nadeera Perera (Sri Lanka Institute of Information Technology, Sri Lanka); Gihan Malith Darmakeerthi (SLIIT, Sri Lanka)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570681292</td>
<td>Effectiveness of Artificial Intelligence, Decentralized and Distributed Systems for Prediction and Secure Channeling for Medical Tourism</td>
<td>Nethmee U Amadoru (Sri Lanka Institute of Information Technology, Sri Lanka); Dulaj Magalage (Si Lanka Institute of Information Technology, Sri Lanka); Lakshani Ad and Madhawa Subasinghe (Sri Lanka Institute of Information Technology, Sri Lanka); Janaka Wijekoon (Sri Lanka Institute of Information Technology, Sri Lanka &amp; Keio University, Japan)</td>
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<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570682209</td>
<td>Prediction of Defaulters Using Machine Learning on Azure ML</td>
<td>Abhishek Shivanna and Dharma P Agrawal (University of Cincinnati, USA)</td>
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<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570677703</td>
<td>Deep Learning for Information Extraction in Finance Documents - Corporate Loan Operations</td>
<td>Guru Subramanian Anand (SP Jain School of Global, Singapore); Jeril Kuriakose (St. John College of Engineering &amp; Manipal University Jaipur, India); Suneel Sharma and Debashis Guha (SP Jain School of Global, India)</td>
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<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570681202</td>
<td>On the Impact of Gabor Phase for Spectro-Temporal Feature Extraction in Building an ASR System</td>
<td>Anirban Dutta (National Institute of Technology Meghalaya, India); Gudmalwar Prabhakar (National Institute of Technology Meghalaya, India); Chevula Venkata Rama Rao (NIT Meghalaya, Shillong &amp; National Institute of Technology Meghalaya, India)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570673377</td>
<td>Quarantine Quibbles: A Sentiment Analysis of COVID-19 Tweets</td>
<td>Jason Nguyen and Ritu Chaturvedi (University of Guelph, Canada)</td>
</tr>
<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570679732</td>
<td>LDPC Codeword Size Determination Using Convolutional Neural Networks</td>
<td>Bradley Comar (US DoD, USA)</td>
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### SESSION 12: ARTIFICIAL INTELLIGENCE

**SESSION CHAIR:** OKECHUKWU UGWEJE (UNIVERSITY OF MOUNT UNION, USA & NILE UNIVERSITY OF NIGERIA, NIGERIA)

**SESSION TIME:** 10:15 A.M – 11:30 A.M

**PARTICIPATION LINK:** LINK WILL BE SHARED TO YOU BY EMAIL

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<tbody>
<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570678215</td>
<td>Reinforcement Learning Based Framework for Real Time Fault Tolerance</td>
<td>Yehia Kotb (American University of the Middle East, Kuwait); Mouhammad Alakkoummi (American University of the Middle East, Kuwait); Hassan Kanj (American University of the Middle East, College of Engineering Kuwait, Kuwait)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570680479</td>
<td>Autonomous Electromagnetic Continuously Variable Transmission</td>
<td>Ataur Rahman and Abdul Jaffar (International Islamic University Malaysia, Malaysia); SanyIzanIhsan (IIUM, Malaysia)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570680917</td>
<td>Distance-Based Anomaly Detection for Industrial Surfaces Using Triplet Networks</td>
<td>Tareq Tayeh and Sulaiman A. Aburakhia (Western University, Canada); Ryan Myers (National Research Council - Government of Canada, Canada); Abdallah Shami (Western University, Canada)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570681237</td>
<td>Financial Time Series Stock Price Prediction Using Deep Learning</td>
<td>Madhu Goyal (University of Technology, Australia)</td>
</tr>
<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570681324</td>
<td>MFNet: Multi-Feature Convolutional Neural Network for High-Density Crowd Counting</td>
<td>Songchenchen Gong (Univesite of Burgundy, France)</td>
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IEEE IEMCON, 2020
## SESSION 13: INTERNET OF THINGS

**SESSION CHAIR:** WILLIAM H. BUTLER (CAPITOL TECHNOLOGY UNIVERSITY, USA)

**SESSION TIME:** 11:45 A.M – 1:00 P.M

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<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570672354</td>
<td>A Simplistic View on Latency of Random Access in Cellular Internet of Things</td>
<td>John Dian (BCIT, Canada); Reza Vahidnia (British Columbia Institute of Technology, Canada)</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570677916</td>
<td>Integration of IoT and Blockchain Technology for Enhancing Supply Chain Performance</td>
<td>Shashank Kumar (National INstitute of Industrial Engineering, India); Ashok Kumar Pundir (National Institute of Industrial Engineering, India)</td>
</tr>
<tr>
<td>12:15 P.M – 12:30 P.M</td>
<td>1570678321</td>
<td>IoT and Blockchain Based Peer to Peer Energy Trading Pilot Platform</td>
<td>Mirza Jabbar Aziz Baig, Mohammad Tariq Iqbal and Mohsin Jamil (Memorial University of Newfoundland, Canada); M. Khan (BC Hydro and Power Authority, Canada)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570679015</td>
<td>IOT Based ICU Patient Health Monitoring System</td>
<td>Lutfun Nahar, Syeda Zafar and Faria Rafique (International Islamic University Chittagong, Bangladesh)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570679032</td>
<td>Motorcyclists Safety Assistant App</td>
<td>Hiruni Fernando, Dhanushki Muthuarchchi, Deborah Rukshana Anandakumar and Chamalka Bawaniti (SLIIT, Sri Lanka)</td>
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## SESSION 14: DISTRIBUTED SYSTEMS AND IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY

**SESSION CHAIR:** GERALD PENN (UNIVERSITY OF TORONTO, CANADA)

**SESSION TIME:** 11:45 A.M –1:00 P.M

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<tbody>
<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570680830</td>
<td>Improving Energy Revenue and Security by Employing SDNS for the Low Voltage Distribution Network for Residential Users in South Africa</td>
<td>Noah SindileFakude and Kingsley A Ogudo (University of Johannesburg, South Africa)</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570682179</td>
<td>Deep Environment Perception in Smart Transportation Systems Using Collaboration of Smart Roads and Autonomous Vehicles</td>
<td>Amin Sahba and RaminSahba (The University of Texas at San Antonio, USA); FarshidSahba (Raja University, Iran)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570673571</td>
<td>Using the ARAIG Haptic Suit to Assist in Navigating Firefighters Out of Hazardous Environments</td>
<td>Cassandra F Laffan, James Coleshill and Alexander Ferworn (Ryerson University, Canada); Brodie Stanfield and Michael Stanfield (IFTech Inventing Future Technology Inc., Canada)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570673804</td>
<td>Smart Plant Disorder Identification Using Computer Vision Technology</td>
<td>Bilal Sariffoodeen, Sukanya Manoharan, Lakna H Rajaratne and Kavindu Ramasinghe (Sri Lanka Institute of Information Technology, Sri Lanka); Janaka Wijekoon (Sri Lanka Institute of Information Technology, Sri Lanka &amp; Keio University, Japan); Darshana Kasthuriratna (Sri Lanka Institute of Information Technology, Sri Lanka)</td>
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<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570681540</td>
<td>An Overview of UPnP-Based IoT Security: Threats, Vulnerabilities, and Prospective Solutions</td>
<td>Golam Kayas (Temple University, USA); Mahmud Hossain (University of Alabama at Birmingham, USA); Jamie Payton (Temple University, USA); S. M. Riazul Islam (Sejong University, Korea (South))</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570681434</td>
<td>Gaja-Mithuru: Smart Elephant Monitoring and Tracking System</td>
<td>Pumudu Fernando, Divya Jayakody, Praveena Dissanayake and Yasiru Perera (Sri Lanka Institute of Information Technology, Sri Lanka); Janaka Wijekoon (Sri Lanka Institute of Information Technology, Sri Lanka &amp; Keio University, Japan); Malitha N Wijesundara (Sri Lanka Institute of Information Technology &amp; University of Rochester, NY USA, Sri Lanka)</td>
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<tr>
<td>12:15 P.M – 12:30 P.M</td>
<td>1570681500</td>
<td>Performance of 802.11P in VANET at 5G Frequencies for Different Channel Models</td>
<td>Harsha Puttagunta and Dharma P Agrawal (University of Cincinnati, USA)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570677092</td>
<td>Power Adaptation for Full-Duplex Relay-Aided D2D Communications with Direct Link</td>
<td>Yasmine A. (GUC, Egypt); Engy Aly Maher (German University in Cairo, Egypt); Ahmed E. El-Mahdy (The German University in Cairo, Egypt)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570680416</td>
<td>Development of a Low-Cost LoRa Based SCADA System for Monitoring and Supervisory Control of Small Renewable Energy Generation Systems</td>
<td>Cherechi Ndukwe and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada); Jahangir Khan (BC hydro, Canada)</td>
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### SESSION 16: SIGNAL DETECTION AND PROCESSING AND MACHINE LEARNING

**SESSION CHAIR: DEBASISH GUHA (SP JAIN SCHOOL OF GLOBAL, INDIA)**

**SESSION TIME: 11:45 A.M – 1:00 P.M**

**PARTICIPATION LINK:** LINK WILL BE SHARED TO YOU BY EMAIL

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<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570673667</td>
<td>A Low Cost sEMG Development Platform for Hand Joint Angle Acquisition</td>
<td>Brendan P. Beauchamp, Christian P Vollmers, M. M. SuvroShahriar and NabeehKandalaft (Grand Valley State University, USA)</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570679731</td>
<td>Analysis of CNN Based Schemes for LDPC Code Classification Using LUT Based Algorithms</td>
<td>Bradley Comar (US DoD, USA)</td>
</tr>
<tr>
<td>12:15 P.M – 12:30 P.M</td>
<td>1570677770</td>
<td>Asset Integrity Monitoring of Wind Turbine Blades With Non-Destructive Radar Sensing</td>
<td>Jamie R. D. Blanche (Heriot-Watt University &amp; Smart Systems Group, United Kingdom (Great Britain)); Adrian Tang and Daniel Mitchell (Heriot-Watt University, United Kingdom (Great Britain)); David Flynn (Heriot Watt University, United Kingdom (Great Britain)); Ranjeetkumar Gupta (Heriot-Watt University, United Kingdom (Great Britain))</td>
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<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570680969</td>
<td>Comparing Radar Receiver Pulse Deinterleaving Performance of Differing Window Functions for Bandpass FIR Filter Design</td>
<td>Cesar Martinez Melgoza, Henry Lin, Illianna Izabal, AmeyaGovalkar, Kayla J Lee, Kiran George and Alex Erdogan (California State University, Fullerton, USA)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570664315</td>
<td>A Model to Enhance Governance Issues Through Opinion Extraction</td>
<td>Kamran Shaukat (The University of Newcastle, Australia)</td>
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# DAY: 3 6th November, 2020

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<tr>
<td>8:30 A.M – 9:15 A.M</td>
<td>KEYNOTE ADDRESS BY BARRY SANDERS (UNIVERSITY OF CALGARY, CANADA) TITLE OF TALK: SECURITY FOR QUANTUM NETWORKS</td>
</tr>
<tr>
<td>9:15 A.M – 10:00 A.M</td>
<td>KEYNOTE ADDRESS BY ALEXANDER FERWORN (RYERSON UNIVERSITY, CANADA) TITLE OF TALK: ALGORITHMIC THINKING FOR COMPUTATIONAL PUBLIC SAFETY (CPS)</td>
</tr>
<tr>
<td>10:00 A.M – 10:15 A.M</td>
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<tbody>
<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570682129</td>
<td>Study of EEG Signals for Focus Detection for Cocktail Party Phenomenon Using Multiple Sources of Sound</td>
<td>Brandon Hoang, Urmil Shah, Ryan Villanueva and Kiran George (California State University, Fullerton, USA)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570682094</td>
<td>Machine Learning for Breast Cancer Classification With ANN and Decision Tree</td>
<td>Reetodeep Hazra and Megha Banerjee (Techno International New Town, India); Leonardo Badia (UniversitàdegliStudi di Padova, Italy)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570681546</td>
<td>Activity Recognition and Localization Based on UWB Indoor Positioning System and Machine Learning</td>
<td>Long Cheng (ABB Inc., USA); Anguo Zhao (University of California Irvine, USA); Kexin Wang (University of Minnesota, Twin Cities, USA); Hengguang Li (Pennsylvania State University, USA); Yifan Wang (Rensselaer Polytechnic Institute, USA); Ruofei Chang (School of Social Sciences, University of California Irvine, USA)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570681491</td>
<td>DenseYOLO: Yet Faster, Lighter and More Accurate YOLO</td>
<td>Solomon NegussieTesema (University of Burgundy &amp; Dire Dawa University, France); El-BeyBourennane (Universite de Bourgogne, France)</td>
</tr>
<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570681427</td>
<td>Can GAN-Generated Network Traffic Be Used to Train Traffic Anomaly Classifiers?</td>
<td>Pasquale A Zingo and Andrew Novocin (University of Delaware, USA)</td>
</tr>
</tbody>
</table>

*All the timings are given in Pacific Standard Time (PST (GMT-8))
**SESSION 18: BODY AND PERSONAL AREA NETWORKS AND ROBOTICS AND AUTONOMOUS SYSTEMS**

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

**SESSION TIME: 10:15 A.M – 11:15 A.M**

**PARTICIPATION LINK : LINK WILL BE SHARED TO YOU BY EMAIL**

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<thead>
<tr>
<th>TIME ALLOTTED</th>
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<th>AUTHORS WITH AFFILIATION &amp; COUNTRY</th>
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</thead>
<tbody>
<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570674090</td>
<td>Deep Learning Technique in Recognizing Hand Grasps Using FMG Signals</td>
<td>UmmeZakia (Simon Fraser University, Canada); Xianta Jiang (Memorial University of Newfoundland, Canada); Carlo Menon (Faculty of Applied Sc., Simon Fraser University, Canada)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570677590</td>
<td>Autonomous Perching of an Omni-Directional Unmanned Aerial Vehicle</td>
<td>Christopher Baird and Scott B. Nokleby (Ontario Tech University, Canada)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570679544</td>
<td>Manual and Autonomous Mode Based Navigation Using Human Robot Interaction on a Robotic Vehicle</td>
<td>Balasubramaniyan Chandrasekaran and Manasa Mainampati (Florida Polytechnic University, USA)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570678049</td>
<td>Detection of Long Narrow Landing Features for Autonomous UAV Perching</td>
<td>Florentin von Frankenberg (University of Ontario Institute of Technology &amp; UOIT, Canada); Scott B. Nokleby (Ontario Tech University, Canada)</td>
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<tbody>
<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570678469</td>
<td>Open Source IoT-Based SCADA System for Remote Oil Facilities Using Node-RED and Arduino Microcontrollers</td>
<td>Charles A Osaretin and Mohammad Zamanlou (Memorial University, Canada); Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada); Stephen Butt (Memorial University, Canada)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570680229</td>
<td>Design &amp; Implementation of IoT Based Smart Helmet for Road Accident Detection</td>
<td>Mohammad EhsanulAlim (7/K Siddique Mir, Block D, Bashundhara, Bangladesh &amp; Nanyang Technological University, Singapore); Sarosh Ahmad (Government College University, Faisalabad, Pakistan); Marzieh Naghdi Dorabati (University of Isfahan, Iran); Ihab Hassoun (City University, Tripoli, Lebanon)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570681829</td>
<td>LoRaWAN Internet of Things Network Planning for Smart City in Bandung Areas</td>
<td>MaruliTua Baja Sihatng, Muhammad Imam Nashiruddin and Muhammad AryMurti (Telkom University, Indonesia)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570682175</td>
<td>Morphing Quadcopters</td>
<td>James H Samawi (Cal State Fullerton, USA); AmeyaGovalkar, Thanat Tothong and Kiran George (California State University, Fullerton, USA)</td>
</tr>
<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570680688</td>
<td>Design of an IoT Interface for a Solar Energy System with Vehicle to Home Option for Newfoundland Conditions</td>
<td>Raghul Suraj Sundararajan (Memorial University of Newfoundland &amp; NA, Canada); Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)</td>
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</tbody>
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**SESSION 20: MOBILE COMPUTING AND MACHINE LEARNING**
**SESSION CHAIR: ALEJANDRO I. BARRANCO-GUTIERREZ(TECNM CELAYA, MEXICO)**
**SESSION TIME: 10:15 A.M – 11:30 A.M**
**PARTICIPATION LINK: LINK WILL BE SHARED TO YOU BY EMAIL**

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<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570678475</td>
<td>Approximate Continuous Nearest Neighbour Query Processing in Clustered Point Sets</td>
<td>Wendy K Osborn and Cole Anderson (University of Lethbridge, Canada)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570681281</td>
<td>Robust Deep Learning Technique-UNet Architecture for Pupil Segmentation</td>
<td>Swathi Gowroju (Lovely Professional University, India); Aarti Aarti (Lovely Professional University, India); Sandeep Kumar (Sreyas Institute of Engineering and Technology, India)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570680682</td>
<td>Preceding Route Segment Grade Impact Descent Model-Based Vehicle Travel Range Prediction</td>
<td>Phalanndwa Makhwathana and Zenghui Wang (University of South Africa, South Africa)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570680201</td>
<td>Privacy Illusion: Beware of Unpadded DoH</td>
<td>Karel Hynek (Faculty of Information Technology CTU in Prague, Czech Republic); Tomas Cejka (CESNET z. s. p. o., Czech Republic)</td>
</tr>
<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570680824</td>
<td>A Streaming Stock Market Application Adapted to a Mobile Device</td>
<td>Janie Huang and Wendy K Osborn (University of Lethbridge, Canada)</td>
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<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570680321</td>
<td>Tropospheric Trapping Refractive Conditions over Black Sea and Its Impact over Radio Wave Propagation</td>
<td>Nikolay Grozev (Technical University of Varna, Bulgaria)</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570681487</td>
<td>Moving Target Defense Application and Analysis in Software-Defined Networking</td>
<td>Charan Gudla (The University of Southern Mississippi, USA); Andrew Sung (University of Southern Mississippi, USA)</td>
</tr>
<tr>
<td>12:15 P.M – 12:30 P.M</td>
<td>1570680051</td>
<td>Improving the Availability of Firewalls with a View to Increasing ICT Consumption Due Covid-19</td>
<td>Edson Ursini (College of Technology, Brazil); Henry de Castro Lobo dos Santos (UniversidadeEstadual de Campinas &amp;Faculdade de Tecnologia, Brazil); Marcelo Okano (EAESP-FGV &amp; CPS, Brazil)</td>
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<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570676877</td>
<td>A Single-Tier Fog Architecture for Delay-Sensitive and Computation-Intensive SFC Requests</td>
<td>Adrian Jaesim (University of Mount Union, USA); NazliSiasi (University of South Florida, USA); Diogo Oliveira (Florida State University, USA); SreeharshaMalapaka (University of Southern California, USA); OkechukwuUgweje (University of Mount Union, USA &amp; Nile University of Nigeria, Nigeria)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570681354</td>
<td>Text Classification of Digital Forensic Data</td>
<td>Jongyeop Kim, Hayden Wimmer, Christian Nwankwo and Lei Chen (Georgia Southern University, USA)</td>
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<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570682211</td>
<td>An Energy-Efficient Machine-Type Communication for Maritime Internet of Things</td>
<td>Payam Rahimi (Frederick University Cyprus, Cyprus); Chrysostomos Chrysostomou (Frederick University, Cyprus); Ioannis Kyriakides (University of Nicosia Research Foundation, Cyprus); Vasos Vassiliou (University of Cyprus &amp; RISE - Research Center on Interactive Media, Smart Systems and Emerging Technologies, Cyprus)</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570679822</td>
<td>Customer Experience Management Platform (CEMP)</td>
<td>Pubudu M Dias (Wayamba University of Sri Lanka &amp; Sri Lanka Telecom PLC, Sri Lanka); Anuradha Udunuwara and Rajiv Weragama (Sri Lanka Telecom PLC, Sri Lanka); Praharshin M Senadeera (Wayamba University of Sri Lanka, Sri Lanka)</td>
</tr>
<tr>
<td>12:15 P.M – 12:30 P.M</td>
<td>1570681036</td>
<td>Towards Resilient Adaptive Vehicular Fog Computing</td>
<td>Muhammad M Sayed (Alexandria University, Egypt); Mona Kashkoush (The City of Scientific Research and Technological Applications, Egypt); Mohamed Azab (Advanced Computing and Information Systems Laboratory, ECE, University of Florida &amp; Virginia Tech, USA)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570677415</td>
<td>A Novel Sensor Design to Sense Liquid Chemical Mixtures Using Photonic Crystal Fiber to Achieve High Sensitivity and Low Confinement Losses</td>
<td>Mirza Mohd Shahriar Maswood (Khulna University of Engineering &amp; Technology, Bangladesh); MdAshif Uddin (Khulna University, Bangladesh); Uzzwal Kumar Dey (Khulna University of Engineering &amp; Technology, Bangladesh); Moriom Akter (Khulna University, Bangladesh); Shamima Sultana Sonia (Khulna University of Engineering &amp; Technology, Bangladesh); Abdullah G. Alharbi (University of Missouri - Kansas City, MO, USA)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570681357</td>
<td>An Enhanced FDTD Algorithm for Analyzing Inhomogeneous Multilayer Waveguides and Filters</td>
<td>Mohamed Karim Laoufi (LCPTS Laboratory, USTHB University, Algeria); Slimane Mekauoi (University of Technology and Sciences Houari Boumediene, Algeria); Mohamed Lamine Tounsi (PEDCL Laboratory, USTHB University, Algeria)</td>
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<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570673322</td>
<td>Ridesharing Based on a Discrete Self-Adaptive Differential Evolution Algorithm</td>
<td>Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570681444</td>
<td>ECG Knowledge Discovery Based on Ontologies and Rules Learning for the Support of Personalized Medical Decision Making</td>
<td>Muthana Zouri, Nicoleta Zouri and Alex Ferworn (Ryerson University, Canada)</td>
</tr>
<tr>
<td>12:15 P.M – 12:30 P.M</td>
<td>1570674285</td>
<td>Fourfold Properties of Light and Its Relevance to Quantum Computation</td>
<td>Pravir Malik (Deep Order Technologies, USA); Lalitha Nallamothula (CTS, USA)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570678431</td>
<td>Number Representation and Arithmetic in the Human Brain</td>
<td>Jennifer Volk and Behrooz Parhami (University of California, Santa Barbara, USA)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570677970</td>
<td>An Initial Julia Simulation Approach to Material Handling Operations from Motion Captured Data</td>
<td>Miguel Hernandez, Damian Valles, David Wierschem, Rachel Koldenhoven and George Koutitas (Texas State University, USA); Francis Méndez (unknown); Semih Aslan and Jesus Jimenez (Texas State University, USA)</td>
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<tr>
<td>11:45 A.M – 12:00 P.M</td>
<td>1570678048</td>
<td>Burrows-Wheeler Transformation for Medical Image Compression</td>
<td>Aierken Shalayiding and Ziya Arnavut (SUNY Fredonia, USA); Basar Koc (Stetson University, USA); Huseyin Kocak (University of Miami, USA)</td>
</tr>
<tr>
<td>12:00 A.M – 12:15 P.M</td>
<td>1570680346</td>
<td>Blood Vessel Segmentation in Fundus Images Using Hessian Matrix for Diabetic Retinopathy Detection</td>
<td>Michael Chi Seng Tang (UniversitiSains Malaysia, Malaysia); Soo Siang Teoh (UniversitiSains Malaysia &amp; Intelligent Biometric Group, Malaysia)</td>
</tr>
<tr>
<td>12:15 P.M – 12:30 P.M</td>
<td>1570681501</td>
<td>Semidefinite Relaxation for Millimeter Wave Massive MIMO Detection</td>
<td>Mohamed Alouzi (University of Ottawa, Canada); Francois Chan (Royal Military College, Canada); Claude D’Amours (University of Ottawa, Canada)</td>
</tr>
<tr>
<td>12:30 P.M – 12:45 P.M</td>
<td>1570674332</td>
<td>A Novel Compact Microstrip Dual-Band Bandpass Filter Using Optimum Coupling Matrix for WLAN Applications</td>
<td>Mehrdad Harifi-Mood (University of Birjand, Iran); Nabeeh Kandalaft (Grand Valley State University, USA); AbolfazlBijari (University of Birjand, Iran)</td>
</tr>
<tr>
<td>12:45 P.M – 1:00 P.M</td>
<td>1570681538</td>
<td>Improving the Performance of DSRC Using OFDM-IM, Dynamic Equalization and Multiple Receive Antennas</td>
<td>Larry Hocken (Royal Military College of Canada, Canada); Francois Chan (Royal Military College, Canada)</td>
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## Day: 4  
7th November, 2020

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| **PARTICIPATION LINK:**  
LINK WILL BE SHARED TO YOU BY EMAIL  |
| 8:30 A.M – 9:15 A.M | KEYNOTE ADDRESS BY GERALD PENN (UNIVERSITY OF TORONTO, CANADA)  
TITLE OF TALK: "UNDERSTANDING LANGUAGE" WITH DEEP LEARNING |
| 9:15 A.M – 10:00 A.M | KEYNOTE ADDRESS BY FREDERIC DUFAUX (CNRS, FRANCE)  
TITLE OF TALK: HYPER-REALISTIC IMAGING FOR ENHANCED QUALITY OF EXPERIENCE |
| 10:00 A.M – 10:15 A.M | ---------BREAK--------- |
| 11:30 A.M – 11:45 A.M | CLOSING CEREMONY |

*All the timings are given in Pacific Standard Time (PST (GMT-8))
## PARALLEL SESSIONS

### SESSION 25: INFORMATION SECURITY AND ENCODING TECHNOLOGY, VISUALIZATION AND COMPUTER GRAPHIC, ELECTRONIC INSTRUMENTATIONS, CONTROL THEORY AND APPLICATIONS

**SESSION CHAIR: ALEJANDRO I. BARRANCO-GUTIERREZ (TECNM CELAYA, MEXICO)**

**SESSION TIME: 10:15 A.M – 11:30 A.M**

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<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570673244</td>
<td>Implementation of the Nonbinary Encoder and Decoder for Systematic Low Density Parity Check Codes on Raspberry-Pi Boards</td>
<td>Abhishek Maheshwari and Usana Tuntoolavest (Kasetsart University, Thailand); Kazuhiko Fukawa (Tokyo Institute of Technology, Japan)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570671564</td>
<td>State-Of-The-Art VANET Trust Models: Challenges and Recommendations</td>
<td>Hritik Sateesh and Pavol Zavarsky (Concordia University of Edmonton, Canada)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570681414</td>
<td>Testing Various Riot Control Police Formations Through Agent-Based Modeling and Simulation</td>
<td>Andrew J. Park and Ryan Ficocelli (Thompson Rivers University, Canada); Lee Patterson (Justice Institute of British Columbia, Canada); Valerie Spicer (Simon Fraser University, Canada); Herbert H. Tsang (Trinity Western University, Canada); Frank Doditch (Justice Institute of British Columbia, Canada)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570682162</td>
<td>A Novel FDTD Algorithm for Analyzing Imperfect Microwave Filters</td>
<td>Mohamed Karim Laoufi (LCPTS Laboratory, USTHB University, Algeria); Slimane Mekaoui (University of Technology and Sciences Houari Boumediene, Algeria); Mohamed Lamine Tounsi (PEDCL Laboratory, USTHB University, Algeria)</td>
</tr>
<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570681230</td>
<td>Ringing Test for Negative Feedback Amplifiers</td>
<td>Tri Minh Tran (Gunma University &amp; Informatics Engineering, Japan)</td>
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## SESSION 26: ADAPTIVE CONTROL, INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS TECHNOLOGY, SOFTWARE ENGINEERING AND OTHERS

**SESSION CHAIR:** XIANTA JIANG (MEMORIAL UNIVERSITY OF NEWFOUNDLAND, CANADA)

**SESSION TIME:** 10:15 A.M – 11:30 A.M

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<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570682102</td>
<td>Quadcopter Control in Three-Dimensional Space Using SSVEP and Motor Imagery-Based Brain-Computer Interface</td>
<td>Devaj N Parikh and Kiran George (California State University, Fullerton, USA)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570676493</td>
<td>Design and Control of an Off-Grid Solar System for a Rural House in Pakistan</td>
<td>Asif Ur Rehman and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570667378</td>
<td>Overcome IT Lab Challenge in COVID-19 with Windows-To-Go</td>
<td>Changshi Yang (Purdue University Northest, USA); Xianping Wang (Purdue University of Northwest, USA); Ying Luo and George Stefanek (Purdue University Northwest, USA)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570674138</td>
<td>Smart and Interactive Laboratory Setup to Teach Controller Area Network Protocol</td>
<td>Thisuri Indiketiya (University of Ruhuna, Sri Lanka)</td>
</tr>
<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570677694</td>
<td>Design and Analysis of off Grid Solar System for DC Load of a House in Pakistan</td>
<td>Chaudhry Bilal Muzaffar and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)</td>
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<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570672462</td>
<td>A Survey on the E-Learning Platforms Used During COVID-19</td>
<td>Xianping Wang (Purdue University of Northwest, USA); Weiru Chen (Old Dominion University, USA); HaoQiu and Awad Eldurssi (Fort Valley State University, USA); Fei Xie (Northern Arizona University, USA); Jiayue Shen (SUNY Polytechnic Institute, USA)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570674330</td>
<td>A Low-Power Tapered Matrix Distributed Amplifier for Ultra-Wide-Band Applications</td>
<td>Nabeeh Kandalaft (Grand Valley State University, USA); Mehrdad Harifi-Mood and AbolfazlBijari (University of Birjand, Iran); Somayye Avval (University of Birjand, USA)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570679880</td>
<td>Handover Performance Improvement in Heterogeneous Wireless Network</td>
<td>Nada Ahmed Ezz-Eldien (Faculty of Engineering, Port Said University, Egypt)</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570681221</td>
<td>Information Security and Organisational Agility in the Digital Era: Exploring the Role of IT Alignment</td>
<td>Gideon Mekonnen Jonathan (Stockholm University, Sweden); Bemenet Kasahun Gebremeskel (Bahir Dar University, Ethiopia)</td>
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<tr>
<td>10:15 A.M – 10:30 A.M</td>
<td>1570680977</td>
<td>Privacy and Security in the Digitalisation Era</td>
<td>Gideon Mekonnen Jonathan (Stockholm University, Sweden); Bemenet Kasahun Gebremeskel (Bahir Dar University, Ethiopia); Sileshi Demesie Yalew (Addis Ababa University, Ethiopia)</td>
</tr>
<tr>
<td>10:30 A.M – 10:45 A.M</td>
<td>1570681521</td>
<td>Factors Affecting Satisfaction with Serious Games - Direct, Mediated and Higher-Order Constructs</td>
<td>Ruben Chambilla, Daniel Tomiuk, Suzanne Marcotte, Michel Plaisent and Prosper Bernard (University of Quebec in Montreal, Canada)</td>
</tr>
<tr>
<td>10:45 A.M – 11:00 A.M</td>
<td>1570681945</td>
<td>Performance Evaluation of OQAM-FBMC System With STBC/SM MIMO Over Rayleigh Fading Channel</td>
<td>Aya Tarek Abou-Elkheir (University of Salford, United Kingdom (Great Britain) &amp; Arab Academy for Science and Technology, Egypt); Ehab F. Badran (Arab Academy for Science, Technology and Maritime Transport, Egypt); Omar Younis Alani (University of Salford, United Kingdom (Great Britain))</td>
</tr>
<tr>
<td>11:00 A.M – 11:15 A.M</td>
<td>1570673616</td>
<td>Simple Approximations for Fast and Secure Deep Learning on Genomic Data</td>
<td>Delica S Leboe-McGowan, Md. Momin Al Aziz and Noman Mohammed (University of Manitoba, Canada)</td>
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<tr>
<td>11:15 A.M – 11:30 A.M</td>
<td>1570673080</td>
<td>Spectral Bloom Filters for Client Side Search</td>
<td>Parth Mitesh Parikh, Mrunank Diwakar Mistry, Dhruvam Kothari and Sunil Khachane (Rajiv Gandhi Institute of Technology, India)</td>
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</table>

*All the timings are given in Pacific Standard Time (PST (GMT-8))