



# IEEE IEMCON– 2017

**The 8<sup>th</sup> IEEE Annual Information Technology, Electronics and Mobile Communication  
Conference  
University of British Columbia  
Vancouver, BC, Canada  
3<sup>rd</sup>-5<sup>th</sup> October, 2017**

## **TECHNICAL SCHEDULE**

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<b>DAY 1</b>	<b>KEYNOTE 1 KEEPING THE INTERNET OPEN WITH AN OPEN-SOURCE VIRTUAL ASSISTANT</b>	<b>3</b>
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	<b>KEYNOTE 3 COMPUTATIONAL PHASES OF QUANTUM MATTER</b>	<b>3</b>
	<b>SESSION 1 WIRELESS SENSOR NETWORK, CONTROL THEORY AND OTHERS</b>	<b>4</b>
	<b>SESSION 2 ELECTRONICS, ADHOC NETWORK AND OTHERS</b>	<b>4</b>
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	<b>KEYNOTE 5 QUICKWAY – AN INTELLIGENT CITY-HIGHWAY NETWORK</b>	<b>10</b>
	<b>KEYNOTE 6 TOWARD SECURE AND EFFICIENT PEER-TO-PEER VOICE OVER IP COMMUNICATION IN LARGE-SCALE HIERARCHICAL MOBILE AD HOC NETWORKS</b>	<b>10</b>
	<b>KEYNOTE 7 AUTONOMOUS SYSTEMS</b>	<b>10</b>
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	<b>SESSION 12 NETWORKING AND OTHERS</b>	<b>13</b>
	<b>SESSION 13 NETWORK SECURITY AND OTHERS</b>	<b>13</b>
	<b>SESSION 14 ALGORITHM OPTIMIZATION AND MOBILE NETWORK</b>	<b>14</b>
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**DAY 1:****3<sup>rd</sup> OCTOBER, 2017**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	<b>VENUE</b>
8:30 AM-9:30AM	REGISTRATION	GREAT HALL N LOBBY
8:30 AM-9:30AM	BREAKFAST	GREAT HALL N
9:30 AM-10:15AM	INAUGURATION	ROOM 2306
10:15 A.M – 11:00A.M	KEYNOTE ADDRESS: PROF. MONICA LAM STANFORD UNIVERSITY, USA KEEPING THE INTERNET OPEN WITH AN OPEN-SOURCE VIRTUAL ASSISTANT	ROOM 2306
11:00 AM – 11.30 AM	COFFEE BREAK	GREAT HALL N
11:30 AM – 12:15PM	KEYNOTE ADDRESS: PROF. PIERRE LAROCHELLE SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY , USA THE ROLE OF HUMAN ROBOT INTERACTIONS IN MANUFACTURING INDUSTRY 4.0	ROOM 2306
12:15 PM-1:00PM	KEYNOTE ADDRESS: PROF. ROBERT RAUSSENDORF UNIVERSITY OF BRITISH COLUMBIA, CANADA COMPUTATIONAL PHASES OF QUANTUM MATTER	ROOM 2306
1:00PM – 2:00 PM	LUNCH	GREAT HALL N

**PARALLEL SESSIONS**

**SESSION – 1 : WIRELESS SENSOR NETWORK, SOFTWARE ENGINEERING AND OTHERS****SESSION CHAIR: YASSER MORGAN, UNIVERSITY OF REGINA, CANADA****SESSION TIME: 2:00PM – 3:30PM****VENUE- ROOM 2311**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION AND COUNTRY</b>
<b>2.00 PM -2.15 P.M</b>	<b>1570371750</b>	A Novel Finite Element Controller Map for Intelligent Control of Induction Motors	Fuzi Ltisi (Memorial University of Newfoundland, Canada), Aziz Rahman (IEMD, Canada)
<b>2.15 PM – 2.30 PM</b>	<b>1570366105</b>	A Virtual MIMO Transmission Scenarios for High Energy Efficiency Smart Wireless Sensor Networks over Rayleigh Flat Fading Channel	Fawaz Alassery (Stevens Institute of Technology, USA )
<b>2.30 PM - 2.45 PM</b>	<b>1570374013</b>	Multidimensional Parameter Estimation for Electromagnetic Sources with Diversely Polarized Sensor Array - A Review	Fang Wang (Northeast Electric Power University, P.R. China), Liang Xin, Xing-peng Mao (Harbin Institute of Technology, P.R. China)
<b>2.45 PM – 3.00 P.M</b>	<b>1570395780</b>	Maximizing Energy Efficiency over Imperfectly Known Fading Channel Gains	Ali Zarei Ghanavati , Daniel Lee (Simon Fraser University, Canada)
<b>3.00 PM - 3.15 PM</b>	<b>1570364654</b>	Scheduling Based on Beamforming for Fifth Generation of Mobile Communication Systems	Yousef yousef.Y (Concordia University, Canada), M.Reza.Soleymani (Concordia Univerisity, Canada),Yousef R. Shayan (Concordia University, Canada)
<b>3:15 P.M – 3:30 P.M</b>	<b>1570365775</b>	ZigZag: An Efficient Deterministic Network-on-chip Routing Algorithm Design	Pedro Valencia (California State University, Fresno, USA), Eric Mueller (California State University, Fresno, USA), Nan Wang (California State University at Fresno, USA)

**SESSION – 2: DISTRIBUTED SYSTEMS; ROBOTICS AND AUTONOMOUS SYSTEMS; SOFTWARE ENGINEERING****SESSION CHAIR:PIERRE LAROCHELLE, SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY , USA****SESSION TIME- 2:00PM – 3:30PM****VENUE- ROOM 2314**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION AND COUNTRY
2.00 PM -2.15 P.M	1570395751	Detecting routes taken by users on public vehicles from their wearables	Bharti Goel, Arup Kanti Dey, Sriram Chellappan (University of South Florida, USA)
2.15 PM – 2.30 PM	1570376936	Doppler Estimation for Aeronautical Satellite OFDM System	Houssein Boud (Western University, Canada)
2.30 PM - 2.45 PM	1570376976	Constant Envelope DCT and FFT Based OFDM Frequency Modulation in Flat Fading Channels	Rayan Alsisi ( Western University, Canada)
2.45 PM – 3.00 P.M	1570382237	An Approach for Efficient Realization of Multi-Operand Addition on FPGAs Using Ternary-Adders	Noureddine Chabini (Royal Military College of Canada, Canada), Said Belkouch (Ecole Nationale des Sciences Appliquées, Morocco)
3.00 PM - 3.15 PM	1570382842	A Distributed Software-Defined Multi-Agent Architecture for Unifying IoT Applications	Xiaoxue Liu (National University of Defense Technology, P.R. China & University of Toronto, Canada), Alberto Leon-Garcia (University of Toronto, Canada), Peidong Zhu (NUDT, P.R. China)
3:15 P.M – 3:30 P.M	1570384314	Building Load Management Clusters Using Reinforcement Learning	Shamwilu Ahmed (McGill University, Canada), Francois Bouffard (McGill University, Canada)

**SESSION – 3: TELECOMMUNICATION SYSTEMS; WIRELESS SENSOR NETWORKS**

**SESSION CHAIR: BABAK ESFANDIARI, CARLETON UNIVERSITY, CANADA**

**SESSION TIME: 2:00PM – 3:30 PM**

**VENUE- ROOM 2504**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION AND COUNTRY
2.00 PM -2.15 P.M	1570385482	Android Application Security for Intent based attacks	Babu Khadiranaikar (Concordia University of Edmonton, Canada)
2.15 PM – 2.30 PM	1570395804	Dynamic Load Balancing in SDN-Based Data Center Networks	Umme Zakia, Hanene Ben Yedder (Simon Fraser University, Canada)

<b>2.30 PM - 2.45 PM</b>	<b>1570389115</b>	A study in accuracy of time synchronization of BLE devices using connection-based event	John Dian, Amirhossein Yousefi, Kasun Somaratne (BCIT, Canada)
<b>2.45 PM – 3.00 P.M</b>	<b>1570389123</b>	Analysis of time synchronization based on current measurement for Bluetooth Low Energy ( BLE)	Amirhossein Yousefi, Kasun Somaratne, John Dian (BCIT, Canada)
<b>3.00 PM - 3.15 PM</b>	<b>1570396710</b>	A Preliminary Investigation on A Wearable Sensory System for Lower Leg Swelling Detection	Han Shen, Shahram Pourazadi, Xianta Jiang, Carlo Menon, Mahan Rahimi (Simon Fraser University, Canada)
<b>3:15 P.M – 3:30 P.M</b>	<b>1570389645</b>	Nested Markov Chain - A Novel Approach to Model Network-Induced Constraints	Pengyi Jia (University of Western Ontario, Canada),Xianbin Wang (Western University, Canada)

**SESSION – 4: WIRELESS SENSOR NETWORKS, IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY AND OTHERS**

**SESSION CHAIR: SON VUONG, UNIVERSITY OF BRITISH COLUMBIA, CANADA**

**SESSION TIME: 2:00PM – 3:30PM**

**VENUE: ROOM 2506**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION AND COUNTRY</b>
<b>2.00 PM -2.15 P.M</b>	<b>1570390008</b>	Performance of NMS Decoding of SC Polar Codes Based Density Evolution	Alaa A.Hasan (University of Carleton, Canada)
<b>2.15 PM – 2.30 PM</b>	<b>1570402665</b>	Enhancing Speech Rate Estimation Techniques To Improve Dysarthria Diagnosis	James Carmichael(Al Ghurair University , Dubai)
<b>2.30 PM - 2.45 PM</b>	<b>1570383092</b>	Adaptive Packet Scheduling and Radio RB Allocation for LTE-A toward 5G Relaying Communications	Ben-Jye Chang (National Yunlin University of Science and Technology, Taiwan), Po-Yen Chang (National Chiao Tung University & Industrial Technology Research Institute, Taiwan), Ying-Hsin Liang(Nan Kai University of Technology, Taiwan)
<b>2.45 PM – 3.00 P.M</b>	<b>1570393147</b>	A design of multimedia conferencing system based on WebRTC Technology	Wenpeng Wang, Lingli Mei (Boston University, USA)
<b>3.00 PM - 3.15 PM</b>	<b>1570393298</b>	Feasibility of using a Large Deep Water PV Water Pumping System A case study for an average farm in Riyadh, Saudi Arabia	Abdulhamid Alshamani, Mohammad Tariq Iqbal(Memorial University of Newfoundland, Canada)

<b>3:15 P.M – 3:30 P.M</b>	<b>1570395975</b>	Phishing Website Detection Framework Through Web Scraping and Data Mining	Andrew Park(Thompson Rivers University, Canada)
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<b>TIME</b>	<b>EVENT</b>	<b>VENUE</b>
<b>3:30PM – 4:00PM</b>	<b>COFFEE BREAK</b>	<b>GREAT HALL N</b>

<b>SESSION –5: BODY AND PERSONAL AREA NETWORKS, WIRELESS SENSOR NETWORKS; OTHERS</b>			
<b>SESSION CHAIR : YASSER MORGAN, UNIVERSITY OF REGINA, CANADA</b>			
<b>SESSION TIME : 4:00PM – 5:30PM</b>			
<b>VENUE: ROOM 2311</b>			
<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION AND COUNTRY</b>
<b>4.00 PM -4.15 PM</b>	<b>1570394691</b>	Symbol Synchronization of the Alamouti Space-Time Block Code with the Gardner Algorithm	Miquel Bazdresch(Rochester Institute of Technology, USA), Mohammed Al-Hamiri (University of Babylon, Iraq)
<b>4.15 PM – 4.30 PM</b>	<b>1570394972</b>	Flexible Paper-based Wideband Antenna for Compact-size IoT Devices	Ahmed Mansour ( Smart CI Research Center of Excellence, Egypt), Mohamed Azab (University of Florida, USA), Nader Shehata (Alexandria University, Egypt)
<b>4.30 PM – 4.45 PM</b>	<b>1570378577</b>	Multi-sensor, Multi-level Data Fusion and Behavioral analysis based Fault Detection and Isolation in Mobile Robots	Anam Abid, Muhammad Tahir Khan (University of Engineering and Technology, Pakistan)
<b>4.45 PM – 5.00 PM</b>	<b>1570394986</b>	Security versus Reliability Study for Power-limited Mobile IoT Devices	Esraa Ghourab (Electrical Engineering Alexandria University, Egypt), Amr Mokhtar (Egypt, Egypt), Mohamed Azab (University of Florida, USA) Mohamed Rizk (Alexandria University, Egypt),
<b>5.00 PM - 5.15 PM</b>	<b>1570395143</b>	Respiratory Effort Monitoring System for Sleep Apnea Screening for both Supine and Lateral Recumbent Positions	Joel Ezequiel Hernandez-Balades (The University of British Columbia, Canada), Edmond Cretu (University of British Columbia, Canada)
<b>5:15 P.M – 5:30 P.M</b>	<b>1570369731</b>	Implementing Fuzzy Logic Controller Techniques for Indirect Vector Control Induction Motor Drives	Fuzi Lftisi (Memorial University of Newfoundland, Canada), Glyn George (Memorial University of Newfoundland, Canada), Aziz Rahman (IEMD, Canada)
<b>SESSION –6: COGNITIVE RADIO NETWORKS, GREEN WIRELESS NETWORKS AND OTHERS</b>			
<b>SESSION CHAIR :PIERRE LAROCHELLE, SOUTH DAKOTA SCHOOL OF MINES &amp; TECHNOLOGY , USA</b>			
<b>SESSION TIME : 4:00PM – 5:30PM</b>			

<b>VENUE: ROOM 2314</b>			
<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION AND COUNTRY</b>
<b>4.00 PM -4.15 PM</b>	<b>1570395737</b>	Towards Physical layer Security in Internet of Things based on Reconfigurable Multiband Diversification	Esraa Ghourab (Electrical Engineering Alexandria University, Egypt), Ahmed Mansour (Smart CI Research Center of Excellence, Egypt), Mohamed Azab (University of Florida, USA), Mohamed Rizk , Amr Mokhtar (Faculty of Engineering, Alexandria University, Egypt)
<b>4.15 PM – 4.30 PM</b>	<b>1570384146</b>	Cooperative Communication in Ultra-Dense Small Cells toward 5G Cellular Communication	Ben-ye Chang, Syuan-Hong Liou (National Yunlin University of Science and Technology, Taiwan), Ying-Hsin Liang (Nan Kai University of Technology, Taiwan)
<b>4.30 PM – 4.45 PM</b>	<b>1570395759</b>	Marble MLFQ: An Educational Visualization Tool for the Multilevel Feedback Queue Algorithm	Spencer Killen, Evan Giese, Huy Huynh, Indratmo Indratmo (MacEwan University, Canada)
<b>4.45 PM – 5.00 PM</b>	<b>1570395777</b>	Max-Min Optimization of Transmission Powers in the Two-Way Cognitive Radio Network Assisted by Orthogonally Signaling Relays	Ali Zarei Ghanavati, Daniel Lee (Simon Fraser University, Canada)
<b>5.00 PM - 5.15 PM</b>	<b>1570393299</b>	Modelling of a large-scale Solar Powered Water Pumping System for irrigation in Saudi Arabia	Abdulhamid Alshamani, Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
<b>5:15 P.M – 5:30 P.M</b>	<b>1570395792</b>	Distributed Robots Localization and Cooperative Target Tracking	Maryamsadat Rasoulidanesh, Nasreen Mohsin, Shahram Payandeh (Simon Fraser University, Canada)

**SESSION –7: COMPLEX ADAPTIVE SYSTEMS, AD HOC NETWORKS AND OTHERS**

**SESSION CHAIR :BABAK ESFANDIARI, CARLETON UNIVERSITY, CANADA**

**SESSION TIME : 4:00PM – 5:30PM**

**VENUE: ROOM 2504**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION AND COUNTRY</b>
<b>4.00 PM -4.15 PM</b>	<b>1570395801</b>	Cooperative Multimedia Streaming in a Group with Device to Device Communication	Umme Zakia (Simon Fraser University, Canada), Samiha Binte Hassan (University of British Columbia, Canada)
<b>4.15 PM – 4.30 PM</b>	<b>1570385787</b>	Real Time Automated Facial Expression Recognition App Development on Smart Phones	Humaid Alshamsi (Florida Institute of Technology, USA)
<b>4.30 PM – 4.45 PM</b>	<b>1570395809</b>	Adaptive Incentive-compatible Routing in VANETs for Highway Applications	Kais Elmurtadi Suleiman, Otman Basir (University of Waterloo, Canada)
<b>4.45 PM – 5.00 PM</b>	<b>1570395821</b>	Reactive Emergency Vehicles Dispatching Based Real-time Information Dissemination	Hanene Ben Yedder (Simon Fraser University, Canada), Ilham Benyahia (Université du Québec en Outaouais, Canada)



5.00 PM - 5.15 PM	1570399690	Improving the Optical Inspection of Through Hole Resistors With Additional Spectral Illuminations	Johannes Richter, Detlef Streitferdt, Elena Rozova, Michael Kirchhoff (Technische Universitaet Ilmenau, Germany)
5:15 P.M – 5:30 P.M	1570395961	An Evaluation of LoRa Coverage in Dakar Peninsula	Bamba Gueye (Université Cheikh Anta Diop de Dakar, Senegal), Moussa Diallo, Madoune Robert Seye, (UCAD, Senegal)

**SESSION –8: ELECTRONIC INSTRUMENTATIO AND OTHERS**

**SESSION CHAIR : SON VUONG, UNIVERSITY OF BRITISH COLUMBIA,USA**

**SESSION TIME : 4:00PM – 5:45PM**

**VENUE: ROOM 2506**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION AND COUNTRY
4.00 PM -4.15 PM	1570352598	An Area Efficient Multi-Mode Memory Controller Based on Dynamic Partial Reconfiguration	Khaled Sakah Mohamed (Mentor Graphics, Egypt)
4.15 PM – 4.30 PM	1570355187	Detection of brain tumor using modified mean-shift based fuzzy c-mean segmentation from MRI Images	Baljinder Singh (IKG-Punjab Technical University, Jalandhar & RC-Khalsa College of Engineering & Techechnology, Amritsar, India), Pankaj Aggarwal (Aggarwal Traders & Government Polytechnic College, Amritsar, India)
4.30 PM – 4.45 PM	1570390022	SC of Polar Codes Based Normalized MS Algorithm	Alaa A.Hasan (University of Carleton, Canada)
4.45 PM – 5.00 PM	1570388858	Circular-core Photonic crystal fiber design using nano rods	Jiwanpreet Virk, Rajinder Singh Kaler, hardeep Singh (Thapar University, Patiala, Punjab, India)
5.00 PM - 5.15 PM	1570371204	Iterative Decoding of Finite-State Markov Channels with Soft-Decision	Igor Moreira (Agência Nacional de Telecomunicações, Brazil), Cecilio Pimentel (UFPE, Brazil)
5:15 P.M – 5:30 P.M	1570396508	Exploring Dynamic Security in the Workplace	Mandeep Pannu (Kwantlen Polytechnic University, Canada), Qussay Salih (KwantlenPolytechnic University, India)
5:30 P.M – 5:45 P.M	1570394989	Semantic Annotation for News Feeds	Hanaa Ghareib Hendi (Fayoum University & Cairo University, Egypt); Haytham Al-Feel (Faculty of Computers & Information, Fayoum University, Egypt); Ehab Ezzat (Faculty of Computers and Information, Cairo University, Egypt)

TIME	EVENT	VENUE
5:30PM – 7:00PM	POSTER AND NETWORKING SESSION	GREAT HALL N
7:00PM – 8:30PM	BANQUET DINNER	GREAT HALL N

**DAY-2:****4<sup>th</sup> October, 2017**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	<b>VENUE</b>
8:30 AM-9:30AM	REGISTRATION	GREAT HALL N LOBBY
8:30 AM-9:30AM	BREAKFAST	GREAT HALL N
9:30 AM-10:15AM	KEYNOTE ADDRESS: PROF. UWE GLÄSSE SIMON FRASER UNIVERSITY, BRITISH COLUMBIA, CANADA ENGINEERING MARITIME SECURITY	ROOM 2306
10:15 A.M – 11:00A.M	KEYNOTE ADDRESS: PROF. LUTZ SPAROWITZ TECHNICAL UNIVERSITY OF GRAZ, AUSTRIA QUICKWAY – AN INTELLIGENT CITY-HIGHWAY NETWORK	ROOM 2306
11:00 AM – 11.30 AM	COFFEE BREAK	GREAT HALL N
11.30 AM – 12:15 PM	KEYNOTE ADDRESS: PROF. BABAK ESFANDIARI CARLETON UNIVERSITY, CANADA TOWARD SECURE AND EFFICIENT PEER-TO-PEER VOICE OVER IP COMMUNICATION IN LARGE-SCALE HIERARCHICAL MOBILE AD HOC NETWORKS	ROOM 2306
12:15PM – 1:00PM	KEYNOTE ADDRESS: PROF. DETLEF STREITFERDT ILMENAU UNIVERSITY OF TECHNOLOGY, GERMANY AUTONOMOUS SYSTEMS	ROOM 2306
1:00PM – 2:00 PM	LUNCH	GREAT HALL N
<b>PARALLEL SESSIONS</b>		

**SESSION –9: MOBILE AND WIRELESS COMPUTING, TELECOMMUNICATION SYSTEMS**  
**SESSION CHAIR :MANDEEP PANNU, KWANTLEN POLYTECHNIC UNIVERSITY, CANADA**  
**SESSION TIME : 2:00PM – 3:30PM**  
**VENUE: ROOM 2311**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION AND COUNTRY
2.00 PM -2.15 P.M	1570368895	Comparison between Traditional plan-based Vs. Agile Software Processes According to Team Size & Project Domain	Nesma Keshta (University of Regina, Canada ) Yasser Morgan (University of Regina, Canada)
2.15 PM – 2.30 PM	1570374958	A systematic framework to discover pattern for web spam classification	Hamed Jelodar (NJUST, P.R. China), Chi Yuan, Xiaohui Jiang and Yongli Wang (Nanjing University of Science and Technology, China)
2.30 PM - 2.45 PM	1570378520	An Energy Management System for e-Bikes	Chao-Ying Chen,S.f.Hwang ,Chyi-Ren Dow (Feng Chia University, Taiwan), Tung Bui (Feng Chia University, Vietnam),
2.45 PM – 3.00 P.M	1570389527	Evaluating Chord over a Hierarchical MANET	Ngozi Silas, Thomas Kunz and Babak Esfandiari (Carleton University, Canada)
3.00 PM - 3.15 PM	1570393048	Investigation of the Impact of Heterogeneous Traffic on Performance of LTE-based Mission Critical Communication Networks	Kehinde O Olasupo, Tajudeen Olasupo, Humaid Alshamsi (Florida Institute of Technology, USA)
3:15 P.M – 3:30 P.M	1570390026	Channel Optimization and LLR Approximation Based SC of Polar Codes	Alaa A.Hasan (University of Carleton, Canada)

**SESSION –10:BIG DATA, MOBILE AND WIRELESS COMPUTING, NETWORK SECURITY**  
**SESSION CHAIR :DETLEF STREITFERDT, ILMENAU UNIVERSITY OF TECHNOLOGY, GERMANY**  
**SESSION TIME : 2:00PM – 3:30PM**  
**VENUE: ROOM 2314**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION AND COUNTRY
2.00 PM -2.15 P.M	1570383971	Privacy Issues of ISPs in the Modern Web	Ali Safari Khatouni, Martino Trevisan, Leonardo Regano, Alessio Viticchie' (Politecnico di Torino, Italy)
2.15 PM – 2.30 PM	1570374636	A Literature Review for Comparing Autonomy and Collaboration In Agent-Oriented Architecture with Service-Oriented Architecture	Parisa Lotfallahtabrizi (University of Regina, Canada), Yasser Morgan (University of Regina, Canada)
2.30 PM - 2.45 PM	1570385301	Distribution Shift Resilient Discrimination Information Space for SVM Classification	Khurum Junejo (Karachi Institute of Economics and Technology, Pakistan)

<b>2.45 PM – 3.00 P.M</b>	<b>1570388445</b>	AndroPIn: Correlating Android Permissions and Intents for Malware Detection	Muttukrishnan Rajarajan, ,Thomas M Chen ,Fauzia Idrees (City University London, United Kingdom ,Great Britain), Yogachandran Rahulamathavan (Loughborough University, United Kingdom,Great Britain), Ayesha Naureen (University of Manchester, United Kingdom (Great Britain),
<b>3.00 PM - 3.15 PM</b>	<b>1570388678</b>	A Framework to handle Big Data for Cyber-Physical Systems	Shafiq Rehman (Duisburg-Essen University, Germany)
<b>3:15 P.M – 3:30 P.M</b>	<b>1570395900</b>	A Robust Authentication Model using Multi-Channel Communication for eHealth Systems to Enhance Privacy and Security	Quazi Ehsanul Kabir Mamun (Charles Sturt University, Australia), Muhammad Rana (AFN Solutions, Australia)

<b>SESSION –11: VLSI AND MICROELECTRONIC CIRCUIT EMBEDDED SYSTEMS, NETWORK SECURITY AND OTHERS</b>			
<b>SESSION CHAIR :JAMES CARMICHAEL, AL GHURAIR UNIVERSITY , DUBAI · COLLEGE OF ENGINEERING AND COMPUTING</b>			
<b>SESSION TIME: 2:00PM – 3:30PM</b>			
<b>VENUE: ROOM 2504</b>			
<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION AND COUNTRY</b>
<b>2.00 PM -2.15 P.M</b>	<b>1570388873</b>	A Knowledge-Based Word Sense Disambiguation Algorithm Utilizing Syntactic Dependency Relation	Lin Han, Xinjie Deng, Guohua Wu (Hangzhou Dianzi University, China)
<b>2.15 PM – 2.30 PM</b>	<b>1570389474</b>	Physical Distance based Peer Organization in P2P network	Mohanjeet Singh, Kanwalpreet Kaur(SPEC Lalru, India)
<b>2.30 PM - 2.45 PM</b>	<b>1570390039</b>	Escaping the Local Optima Trap Caused by PSO by Hybridization Scheme for Elongate the WSN's Lifetime	Abdullah Alshahrani, Majed Abdouli (University of Jeddah, Saudi Arabia)
<b>2.45 PM – 3.00 P.M</b>	<b>1570390450</b>	A Junctionless Inverted-TFET with Increased ON-current and Reduced Ambipolarity	M.Rafat ,M.Ehteshamuddin, Sajad A. Loan (Jamia Millia Islamia New Delhi, India), Abdullah Alharbi (AlJouf University,Saudi Arabia),
<b>3.00 PM - 3.15 PM</b>	<b>1570395525</b>	Implementing Publish/Subscribe Pattern for CoAP in Fog Computing Environment	I-En Liao (National Chung Hsing University, Taiwan)
<b>3:15 P.M – 3:30 P.M</b>	<b>1570390612</b>	A Network-based Framework for RAT-Bots Detection	Ahmed Awad, Sameh Salem, Samir G. Sayed (Helwan University, Egypt)

TIME	EVENT	VENUE
2:00PM – 3:30PM	WORKSHOP ON DATA ANALYTICS	ROOM 2506
3:30PM – 4:00PM	COFFEE BREAK	GREAT HALL N

SESSION –12: ELECTRONIC INSTRUMENTATIONS, NETWORK ARCHITECTURES			
SESSION CHAIR :MANDEEP PANNU, KWANTLEN POLYTECHNIC UNIVERSITY, CANADA			
SESSION TIME : 4:00PM – 5:30PM			
VENUE: ROOM 2311			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION AND COUNTRY
4.00 PM -4.15 PM	1570390798	Understanding User Situational Relevance in Ranking Web Search Results	Euqene Opoku-Mensah (University of Electronic Science and Technology of China, China)
4.15 PM – 4.30 PM	1570391721	Development of Efficient Algorithm to Detect and Classify Alpha Activity in Real-time EEG Signal using LabVIEW for Mental State Detection	Ahsen Ali (Sultan Qaboos University, Pakistan), Amir Arshad Abdulghani (Sultan Qaboos University, Oman)
4.30 PM – 4.45 PM	1570393300	A Diversity Achieving Power Profile in MIMO Decode and Forward Relay Networks	Ali Kalantari (IRAN, Iran), Mohammad Neinavaie (Shiraz University, Iran)
4.45 PM – 5.00 PM	1570393961	Event Graphs for the Observation of Botnet Traffic	Dilara Acarali, Muttukrishnan Rajarajan, Nikos Komninos (City, University of London, United Kingdom, Great Britain), Ian Herwono (British Telecommunications plc, United Kingdom, Great Britain)
5.00 PM - 5.15 PM	1570393863	Approaching Bandwidth Reliability of a CMOS Highly Dense Physical Unclonable Function	Seyed Hamidreza Moqhadas (Technical University of Munich, Germany), Georg Fischer (FAU Erlangen-Nürnberg, Germany)
5:15 P.M – 5:30 P.M	1570394142	Effect of Lattice Temperature on the Performance of Symmetric Lateral Bipolar Transistor on SiGe-OI	Lourembam Beloni Devi, Asutosh Srivastava (Jawaharlal Nehru University, India)

SESSION –13: INFORMATION SECURITY AND ENCODING TECHNOLOGY, TELECOMMUNICATION SYSTEMS AND OTHERS			
SESSION CHAIR :DETLEF STREITFERDT, ILMENAU UNIVERSITY OF TECHNOLOGY, GERMANY			
SESSION TIME : 4:00PM – 5:30PM			

<b>VENUE: ROOM 2314</b>			
<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4.00 PM -4.15 PM	1570390734	Sensor Fusion for Floor Detection	Fahimul Haque, Vahid Dehghanian, Abraham O Fapojuwo (University of Calgary Canada)
4.15 PM – 4.30 PM	1570394768	Design of Low-Cost Portable 12 Lead Wireless ECG Device Using TI ADS 1198	Pavanl Pavanl, Kishore Kumar Kamarajugadda (Faculty of Science and Technology, ,India)
4.30 PM – 4.45 PM	1570390587	An Advanced Application to Decrease Household Power Consumption and Save Energy Detecting the Weather Condition	Moonmoon Ahmed, Mohd Nazim, Taoseef Ishtiaq (North South University, Bangladesh), Rahman Orpon (Jahangirnagar University, Bangladesh), Nowfel Mashnoor (Rajshahi University of Engineering and Technology, Bangladesh),
4.45 PM – 5.00 PM	1570390013	On Optimal Signalling Distribution of SC Polar Decoding Based MIMO Fading Channels	Alaa A.Hasan (University of Carleton, Canada)
5.00 PM - 5.15 PM	1570395257	UrbanCount: Mobile Crowd Counting in Urban Environments	Peter Danielis (University of Rostock, Germany), Sylvia T. Kouyoumdjieva, Gunnar Karlsson (KTH Royal Institute of Technology, Sweden)
5:15 P.M – 5:30 P.M	1570395752	Augmentation of a3*nR Hybrid Space-Time Block Code with Spatial Modulation	Miguel Bazdresch (Rochester Institute of Technology, USA), Jorge Robles, Joaquin Cortez (Instituto Tecnológico de Sonora, Mexico)

<b>SESSION – 14: ROBOTICS AND AUTONOMOUS SYSTEMS, BIG DATA, IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY</b>			
<b>SESSION CHAIR :JAMES CARMICHAEL, AL GHURAIR UNIVERSITY , DUBAI · COLLEGE OF ENGINEERING AND COMPUTING</b>			
<b>SESSION TIME :4:00PM – 5:30PM</b>			
<b>VENUE: ROOM 2504</b>			
<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
4.00 PM -4.15 PM	1570395541	An Optimized Discovery Mechanism for Smart Objects in IoT	Mohammed Mahyoub, Ashraf Mahmoud, Tarek Rahil Sheltami (KFUPM, Saudi Arabia)
4.15 PM – 4.30 PM	1570395564	Geo-localized Public Perception Visualization using GLOPP for Social Media	Anshul Aggarwal, Ashima Singh (Thapar University, India)
4.30 PM – 4.45 PM	1570395656	LBP Based Biometric Identification using the Periocular Region	Pavanl Pavanl (Icfai Foundation of Higher Education, India), Kishore Kumar Kamarajugadda (Faculty of Science and Technology & IFHE University, Hyderabad, India)
4.45 PM – 5.00 PM	1570395739	Touch-Input Based Continuous Authentication Using Gesture-Level and Session-Level Features	Ahmed Ramadan, Hamed Hamed, Amany Sarhan (Tanta University, Egypt)
5.00 PM - 5.15 PM	1570395895	A Partial Key Distribution Protocol for WSNs in Distributed IoT Applications	Quazi Ehsanul Kabir Mamun (Charles Sturt University, Australia), Muhammad Rana (AFN Solutions, Australia)

<b>5:15 P.M – 5:30 P.M</b>	<b>1570395705</b>	An IoT Framework for Smart Power Management System	Shopan Dey, Tapasundar Kar, Asif Iqbal, Doipayan roychoudhury, Subham Laha, Anirban Chakraborty, Kaunteya Shaw, Ratul Dey (UEM, KOLKATA, INDIA)
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<b>TIME</b>	<b>EVENT</b>	<b>VENUE</b>
<b>4:00PM – 5:30PM</b>	<b>WORKSHOP ON DATA ANALYTICS</b>	<b>ROOM 2506</b>
<b>5:00PM – 6:00PM</b>	<b>NETWORKING COFFEE SESSION</b>	<b>GREAT HALL N</b>

**DAY-3:****5<sup>th</sup>October, 2017**

<b>TIME</b>	<b>NAME OF THE EVENT</b>	<b>VENUE</b>
8:30 AM-9:30AM	REGISTRATION	GREAT HALL N LOBBY
8:30 AM-9:30AM	BREAKFAST	GREAT HALL N
9:30AM –10:15AM	KEYNOTE ADDRESS: DR. GOUTAM CHATTOPADHYAY CALIFORNIA INSTITUTE OF TECHNOLOGY(NASA JPL),USA CUBESATS FOR COMMUNICATION AND SPACEBORNE INSTRUMENTS	ROOM 2306
10:15 AM –11:00AM	KEYNOTE ADDRESS: PROF. NAN WANG CALIFORNIA STATE UNIVERSITY, USA FROM NETWORK-ON- CHIP TO WIRELESS COMMUNICATION TECHNOLOGY	ROOM 2306
11.00 AM – 11:30 PM	COFFEE BREAK	GREAT HALL N
11:30PM – 12:15 PM	KEYNOTE ADDRESS:ANDREW PARK THOMPSON RIVERS UNIVERSITY, CANADA INFORMATION VISUALIZATION AND VISUAL ANALYTICS ON BIG DATA	ROOM 2306
12:15PM – 1:00PM	KEYNOTE ADDRESS: PROF. YASSER MORGAN UNIVERSITY OF REGINA, CANADA THE USE OF DEEP LEARNING IN DIGITAL SECURITY	ROOM 2306
1:00PM – 1:15PM	PRIZE GIVING CEREMONY	ROOM 2306
1:15PM – 2:15PM	LUNCH	GREAT HALL N

**PARALLEL SESSIONS**



**SESSION – 15: TELECOMMUNICATION SYSTEMS, BIG DATA AND OTHERTS**  
**SESSION CHAIR: I-EN LIAO, NATIONAL CHUNG HSING UNIVERSITY, TAIWAN**  
**SESSION TIME : 2:15PM – 3:30PM**

**VENUE: ROOM 2311**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
<b>2.15 PM – 2.30 PM</b>	<b>1570394976</b>	Improved CNFET Performance Based on Genetic Algorithm Parameters Optimization	Shimaa Sayed, Mostafa Abutaleb, Zaki Nossair(Helwan University, Egypt)
<b>2:30PM – 2:45PM</b>	<b>1570390011</b>	Non-Uniform Quantizers with SC Polar Based Channel-Optimized Decoders	Alaa A.Hasan (University of Carleton, Canada)
<b>2.45 PM – 3.00 P.M</b>	<b>1570383831</b>	A New Sub-Optimum Four-Wave Mixing Minimization Method and its Comparative Performance Analysis for a Fiber Optic Based Information system	Gurpreet Singh(Guru Nanak Dev University, India)
<b>3.00 PM - 3.15 PM</b>	<b>1570355999</b>	Using Hybrid ACO/PSO Enhance NN RZ Leach For Mobile Sink In WSN's	Baljinder Singh (IKG-Punjab Technical University, Jalandhar & RC-Khalsa College of Engineering & Techechnology, Amritsar, India), Pankaj Aggarwal (Aggarwal Traders & Government Polytechnic College, India)
<b>3:15 P.M – 3:30 P.M</b>	<b>1570386656</b>	CMOS Scaling Issues and Futuristic Carbon Allotropes	Gangnesh Kumar(Panjab University Chandigarh, India), Sunil Agrawal (UIET, Panjab University, India)

**SESSION –16: MULTI-HOP NETWORKS AND OTHERS**

**SESSION CHAIR :NAN WANG, CALIFORNIA STATE UNIVERSITY, USA**

**SESSION TIME : 2:15PM – 3:30PM**

**VENUE: ROOM 2314**

<b>TIME ALLOTTED</b>	<b>PAPER ID</b>	<b>PAPER NAME</b>	<b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>
<b>2.15 PM – 2.30 PM</b>	<b>1570396589</b>	Light Fidelity Handoff Mechanism for Content Streaming in High Speed Rail Networks	HimaBindu Valiveti (GRIET, Hyderabad, India), Trinatha Rao P (GITAM University, India)
<b>2.30 PM - 2.45 PM</b>	<b>1570373235</b>	On reducing the Cramer-Rao lower bound of localization by selecting base stations based on convex relaxation	Tienan Zhang, Liang Xin, Jianxin Liu, Xing-peng Mao (Harbin Institute of Technology, China)
<b>2.45 PM – 3.00 P.M</b>	<b>1570399089</b>	Intelligent Health Diagnosis and Patient Guidance System	Tapan Rana (Maulana Abul Kalam Azad University of Technology India), Prateek Bagchi, Pritam Das and Sanchali Payne (Maulana Abul Kalam Azad University of Technology, India); Ritika Chatterjee (Institute of Engineering and Management, India)
<b>3.00 PM - 3.15 PM</b>	<b>1570395703</b>	LOW COST ULTRASONIC SMART	Rohit Agarwal, Nikhil Ladha, Mohit Agarwal, Kuntal Majee, Abhijit Das, Subham Kumar,

		GLASSES FOR BLIND	Subham Rai, Anand Singh, Somen Nayak (University of Engineering and Management Jaipur, India), Shopan Dey, Ratul Dey (IEM, INDIA)
3.15PM-3.30PM	1570395732	Study of Breakdown Voltage in Silicon Germanium (SiGe) Particle Detectors	Jitendra Kumar (Jawaharlal Nehru University, New Delhi, India); Kundan Singh and A. Srivastava (SAJIC, India); Lourembam Beloni Devi (Jawaharlal Nehru University, New Delhi, India)

**SESSION –17: ALGORITHM, NETWORKING AND OTHERS**

**SESSION CHAIR : MALAY GANGOPADHYA, INSTITUTE OF ENGINEERING AND MANAGEMENT, INDIA**

**SESSION TIME : 2:00PM – 3:15PM**

**VENUE: ROOM 2504**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2.15 PM – 2.30 PM	1570400465	Dual Band 30°-30°-120° Triangular Dielectric Resonator Antenna	Sudipta Maity (Jadavpur University, India); Malay Gangopadhyaya (Institute of Engineering and Management, India), Sudipta Maity (Jadavpur University, India), Malay Gangopadhyaya (Institute of Engineering and Management, India)
2.30 PM - 2.45 PM	1570400464	Implementation of OFDM modulator and demodulator subsystems using 16 point FFT/IFFT pipeline architecture in FPGA	Jayanta Bhattacharya (IEM, India),
2.45 PM – 3.00 P.M	1570399712	L shaped DGS Integrated Triangular Microstrip Antenna with Frequency Tuning Characteristics	Srijita Chakraborty (Institute of Engineering & Management, Kolkata, India); Malay Gangopadhyaya (Institute of Engineering and Management, India); Mrinmoy Chakraborty (Kalyani University, India)
3.00 PM - 3.15 PM	1570401371	Design of Minnick Counter using MOS-based Threshold Logic	Mili Sarkar (Institute of Engineering and Management, IEM, India)

TIME	EVENT	VENUE
2:15PM – 3:45PM	WORKSHOP ON RASPBERRY-PI 3	ROOM 2506
3:45PM – 4:00PM	COFFEE BREAK	GREAT HALL N

**4:00PM – 5:30PM**

**WORKSHOP ON RASPBERRY-PI3**

**ROOM 2506**