

**ECEGC**

**2014**



***ECEGC - 2014***

***Electrical and Computer Engineering Graduate Conference***

*April 8, 2014 Scotia Bank Auditorium*

*McCain Arts and Social Sciences Building*

*Halifax, N.S. Canada*



**ECEGC – 2014 Conference Program**

**Tuesday, April 8th, 2014   
8:30 am – 6:00 pm  
Scotia Bank Auditorium - McCain Arts & Social Sciences Building**

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| **8:30** | Drs. J. Ilow and T. Little | | **Opening remarks** |
| **8:45** | Prof. Stan Matwin  from Faculty of Computer Science | | **Keynote Presentation on Big Data Analytics** |
| **9:30** | **Refreshment break** | | |
| **10:00** | **PhD student presentations** **(Chair: Franklin Che)** | | |
| 1 | Aaron MacNeill | Offshore Power System Design | |
| 2 | Abdulrazig Alarabi | Multidimensional Optimal Control of Wind Turbine/Generator | |
| 3 | Umar Farooq | Fuzzy Model Based Control of Nonlinear Systems | |
| 4 | Aasem Alyahya | Medium Access Control for MU-MIMO Uplink Transmissions in Wireless Networks | |
| 5 | Aidong Yang | Variance Detection for Non-coherent Impulse Radio UWB Receivers | |
| 6 | Wei Fan | Application of Coordinate Transformation in Solving Electromagnetic Complex and Moving Boundary Value Problems | |
| 7 | Fadhel Alhumaidi | Relay-Assisted Downlink Transmissions to Support Increased Data Rates | |
| 8 | Ran Chen | Metamaterial and its Fabrication by Nano Imprint Lithography | |
| **12:00** | **Lunch** | | |
| **1:00** | **PhD student presentations (Chair: Laleh Mokhtarpour)** | | |
| 9 | Colin O'Flynn | Synchronous Clock Recovery for Cryptographic Devices | |
| 10 | Deepak Simili | Silicon Kerr Effect Electro-Optic Switch | |
| 11 | Houssen Milad | Calculating the Optimum Tilt Angles for a Flat-Plate Solar Collector in Khomas; Libya | |
| 12 | Rashed Alsakarnah | Multi-Resolution Multicast in OFDMA Wireless Networks with Relay Nodes | |
| 13 | Naser Otman | Optical Nanoantenna | |
| 14 | Shunchuan Yang | A Time-Domain Collocation Meshless Method with Local Radial Basis Functions for Transient Analysis | |
| 15 | Xiaoou Mao | Optical Surface Plasmon in Semiconductors | |
| **2:45** | **Refreshment break** | | |
| **3:00** | **Poster Presentations (Chair: Hasan Imam)** | | |
|  | RESEARCH RESULTS presented by 32 Master students | | |
| **5:00** | **Awards Announcements** | | |