

Edward M. Rochester

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EDUCATION

MSc. Computer Science

Jan, 2018 - Present

University of Calgary. Calgary, Alberta, Canada

BSc. Computer Science

Sep, 2015 - Dec, 2017

University of Calgary. Calgary, Alberta, Canada

BSc. Power and Electrical Engineering

Sep, 2009 - Jun, 2012

Riga Technical University. Riga, Latvia

Thesis: Mathematical modelling of magnetic fields in multipolar synchronous wind generators using complex computer program QuickField.

RESEARCH EXPERIENCE

- Research Assistant, Network Research Group, University of Calgary, Calgary, Alberta, Canada. Jan, 2018 - Aug, 2018, Jan, 2019 - Present .
- Undergraduate Research Assistant, Network Research Group, University of Calgary, Calgary, Alberta, Canada. Jul, 2017 - Sep, 2017 (full-time), Sep, 2017 - Dec, 2017 (part-time).
- Student volunteer in ERAF project No.2010/0291/2DP/2.1.1.1.0/10/APIA/VIAA/055, "Improvement of the effectiveness and competitiveness of the N power supply systems for railway passenger cars". Riga, Latvia. Sep, 2011 - Jan, 2013.

TEACHING EXPERIENCE

- Teaching Assistant. CPSC-526 (Network Systems Security). Fall 2018.
Evaluation: 65.15/70

PUBLICATIONS

- E. Rochester, J. Ma, B. Lee and M. Ghaderi, Mountain Pine Beetle Monitoring with IoT, in Proc. IEEE World Forum on Internet of Things (WF-IoT), Limerick, Ireland, April 2019.
- A. Yousuf, E. Rochester, B. Ousat and M. Ghaderi, Throughput, Coverage and Scalability of LoRa LPWAN for Internet of Things, in Proc. IEEE/ACM International Symposium on Quality of Service (IWQoS), Banff, Canada, June 2018.
- A. Yousuf, E. Rochester and M. Ghaderi, A Low-Cost LoRaWAN Testbed for IoT: Implementation and Measurements, in Proc. IEEE World Forum on Internet of Things (WF-IoT), pages 361-366, Singapore, February 2018.
- Kamoliņš, E., Levins, N., Pugačevs, V., Gusakovs, A. Undercar Electrical Generator for Railway Passenger Cars: Improvement of Efficiency. Latvian Journal of Physics and Technical Sciences, 2013, Vol.50, Iss.2, pages 23.-32.
- Levins, N., Kamoliņš, E., Pugačevs, V., Gusakovs, A. Synchronous Generator with Two-Channel Excitation for Power Supply of Railway Passenger Cars. No: The 8th International Conference „Electric Power Quality and Supply Reliability“ (PQ 2012) : Conference Proceedings, Estonia, Tartu, 11.-13. June, 2012.

INVITED TALKS

- Invited Graduate student talk. *Performance and Scalability of LoRaWAN*. Urban Alliance Speaker Series. Calgary, Alberta, Canada. April 4, 2019.
- Invited Video and Blog Q&A. *Smart Calgary: The Urban Alliance and University of Calgary Students*. Semtech's Corporate Blog. Calgary, Alberta, Canada. December 4, 2018.
Blog: <https://blog.semtech.com/discovering-lora-technology-through-academics-a-qa-with-the-university-of-calgary>
Video: <https://info.semtech.com/calgary>

PROFESSIONAL INVOLVEMENT

- President for the Computer Science Graduate Society (CSGS) at the University of Calgary. April 2018 - May 2019.
- Graduate student member of Safety Committee for the Department of Computer Science at the University of Calgary. 2018.

SERVICE

- Reviewer: IEEE/ACM International Symposium on Quality of Service (2018)
- Reviewer: Computer Communications (2019)

AWARDS AND SCHOLARSHIPS

- Faculty of Graduate Studies Travel Award. April, 2019.