

Pedram Ghasemigoudarzi



1. Background

B.Eng., Iran University of Science and Technology, 2017
M.Eng. Memorial University, Dec., 2020

2. Thesis and Supervisors

Permanent Water and Flash Flood Detection Using Global Navigation Satellite System Reflectometry

- **Supervisors: Dr. Weimin Huang, Dr. Oscar DeSilva & Desmond Power**

3. Publication

- 1) P. Ghasemigoudarzi, W. Huang, O. DeSilva, Q. Yan, and D. Power, “[A Machine Learning Method for Inland Water Detection Using CYGNSS Data](#),” *IEEE Geosci. Remote Sens. Lett.*, 2021. (in press, DOI: 10.1109/LGRS.2020.3020223).
- 2) P. Ghasemigoudarzi, W. Huang, O. DeSilva, Q. Yan, and D. Power, “[Flash Flood Detection from CYGNSS Data Using the RUSBoost Algorithm](#),” *IEEE Access*, vol. 8, pp. 171864-171881, 2020.
- 3) P. Ghasemigoudarzi, W. Huang, and O. DeSilva, “[Detecting Floods Caused by Tropical Cyclone Using CYGNSS Data](#),” *IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI)*, Karlsruhe, Germany, 2020.
- 4) P. Ghasemigoudarzi, W. Huang, O De Silva, and D. Power, “[Simulating and Testing a Primary Model of the Killick-1 GNSS-R Array Antenna](#),” *IEEE NECEC Conference*, St. John's, Canada, 2020.
- 5) P. Ghasemigoudarzi, W. Huang, O De Silva, and D. Power, “[Antenna design for Killick-1 GNSS-R payload](#),” *IEEE NECEC Conference*, St. John's, Canada, 2019.

4. **Award**

- Fellow of School of Graduate Studies
- 1st Prize of Research Day Presentation, Faculty of Engineering, MUN, 2020.