



Ms. Sahel Mahdavi

1. Background

B.Eng., K. N. Toosi University, 2012

M.Eng., K. N. Toosi University, 2014

PhD, Memorial University, October 2018

2. Thesis and Supervisors

SAR and Optical Images

• Supervisors: Dr. Bahram Salehi, Dr. Weimin Huang, Dr. Brian Brisco

3. Publication

- 1) S. Mahdavi*, B. Salehi, M. Amani, J. Granger, B. Brisco, and W. Huang, “[A dynamic classification scheme for mapping spectrally similar classes: application to wetland classification](#),” *Int. J. Appl. Earth Observ. Geoinf.*, vol. 83, article no. 101914, pp. 1-14, 2019.
- 2) S. Mahdavi*, B. Salehi, W. Huang, M. Amani, and B. Brisco, “[A PolSAR Change Detection Index Based on Neighborhood Information for Flood Monitoring](#),” *Remote Sens.*, vol. 11, no. 16, 1854, 2019.
- 3) S. Mahdavi, B. Salehi, J. Granger, M. Amani, B. Brisco, and W. Huang, “[Remote sensing for wetland classification: a comprehensive review](#),” *GISci. Remote Sens.*, vol. 55, no. 5, pp. 623-658, 2018.
- 4) S. Mahdavi, B. Salehi, M. Amani, J. Granger, B. Brisco, and W. Huang, “[An Object-Based Method for Filtering and Feature Extraction from Polarimetric SAR Data](#),” *IEEE NECEC Conference*, St. John's, Canada, 2017.
- 5) S. Mahdavi, B. Salehi, C. Moloney, W. Huang, and B. Brisco, “[Speckle filtering of Synthetic Aperture Radar images using filters with object-size adaptive windows](#),” *Int. J. Digital Earth*, vol. 11, no. 7, pp. 703-729, 2018.

- 6) S. Mahdavi, B. Salehi, M. Amani, J. E. Granger, B. Brisco, W. Huang, and A. Hanson, “Object-based Classification of Wetlands in Newfoundland and Labrador Using Multi-Temporal PolSAR Data,” *Can. J. Remote Sens.*, vol. 43, no. 5, pp. 432-450, 2017.
- 7) S. Mahdavi, B. Salehi, M. Amani, J. Granger, B. Brisco, and W. Huang, “A Dynamic Feature Selection Method for Object-based Classification of Wetlands,” *IEEE International Geoscience and Remote Sensing Symposium*, Fort Worth, USA, 2017.
- 8) S. Mahdavi, B. Salehi, M. Amani, J. Granger, B. Brisco, and W. Huang, “An Investigation into the Capability of Various Synthetic Aperture RADAR (SAR) Sensors for Wetland Classification in Newfoundland and Labrador,” *ASPRS Annual Conference: Imaging & Geospatial Technology Forum*, Baltimore, USA, 2017.
- 9) S. Mahdavi*, B. Salehi, B. Brisco, J. Granger, M. Amani, and W. Huang, “Object-based multi-temporal SAR analysis for wetland classification in Newfoundland and Labrador,” *37th Canadian Symposium on Remote Sensing*, Winnipeg, Canada, 2016
- 10) S. Mahdavi*, B. Salehi, B. Brisco, and W. Huang, “Object-Based Classification of Wetlands Using Optical and SAR Data with a Compound Kernel in Support Vector Machine (SVM),” *American Geophysical Union (AGU) Fall Meeting*, San Francisco, USA, 2015.
- 11) S. Mahdavi*, B. Salehi, C. Moloney, W. Huang, B. Brisco, “A new method for speckle reduction in Synthetic Aperture Radar (SAR) images using optimal window size,” *9th International Symposium on Digital Earth*, Halifax, Canada, 2015.

4. Award

- Canadian Institute of Geomatics - NL Graduate Award, 2015
- Emera Graduate Scholarship, Memorial University, 2015, 2016
- Fellow of School of Graduate Studies