

## **Titles of Projects for April 2018**

**(With Supervisors in Parenthesis)**

Synthetic Aperture Radar Image Restoration Via a Polya Network Contagion Scheme

Alfred Chen, Simon Gladstone, Christopher Ko, Adan Moran-MacDonald, James Szoke (F. Alajaji)

Automated Drill Core Logging

Charlie Horn, Mert Mumtaz, Mark Tamming, Liam Vovk (J. McLellan)

Managing Automated Financial Trading Risks and Returns Through Reinforcement Learning

Chris Bentz, Callen Hageman, Jenna Murphy, Morgan Nurmi (S. Yuksel)

Effective Communication of Text Data

Anthony Krause, Jeremy Kulchyk, Xiaofeng Lin, Spencer Seliga, James Weiss (F. Alajaji)

Region Tracking in an Image Sequence and its Applications to Precision Striking

Stephen Chisnall, Clifford Lerebours, Sarah Paull, Jillian Reid, Hayden Waller (A. Mansouri)

Modelling and Control of a 2 Degree of Freedom Hopping Robot

Elizabeth Anderson, Manda Bobinac, Emma Dawson, Stuart Fowler, Doug Mavins (A. Lewis)

Empirical Prediction of Wind Farm Power Output Using Historical Data

Nicola Charles, Cara Engelbrecht, Alison Harrod, Jack Horn, Tyler Snook (S. Yuksel)

Image Restoration Algorithms for Musical Style Transfer

David Beallor, Himesh Bhatia, Adam Eisen, Connor McMillan, Daniel Tamming (A. Mansouri)

Optimizing Electric Grid Demand Management with Decentralized Learning

Griffin Baillie, Louis Burelle, Graeme Garner, Stephen MacKenzie (A. Yuksel)

Predicting Elections Using a Network Contagion Model

Lauren Babington, Liam Dupelle, Courtney Milligan, Jessie Ramsay, Taylor Sawadsky (A. Alajaji)

Facial Recognition Algorithm Optimization

Michael Darrigo, James Pelley, Yuhao Tang, Chester Wu (A. Mansouri)

Stabilization of Unmanned Aerial Vehicles for Wildfire Mitigation

Margo Bain, Francesca Bosca, Jesin Kapur, Kate Lahaie, Katelyn Morrison (A. Lewis)