Arezoo Rajabi

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RESEARCH AREAS

Machine & Deep Learning, Privacy and Security, Fault Tolerance Algorithms

SOFTWARE SKILLS

Programming Languages: Python, Java, R, Matlab, C#

Machine and Deep Learning Tools: Tensorflow, MatConvNet, PyTorch, Scikit-Learn, Spark, Hadoop, SciPy, Matplot, ggplot, Rapid Miner, Weka

Other Tools: MySQL, OPENET, Microsoft SQL

EDUCATION

Oregon State University, Corvallis, Oregon, USA 2014 – Present

PhD Candidate in Computer Science (GPA 3.6/4), Graduate Research Assistant.

Sharif University of Technology, Master of Science (M.S.) in Computer Engineering 2011 – 2013

Sharif University of Technology, Bachelor Science (B.S.) in Computer Science 2005 – 2010

CERTIFICATES

Spark Fundamentals II, Cognitive Class (An IBM Initiative) 2019

Data Science Foundation - Level 2, Cognitive Class (An IBM Initiative) 2019

Data Science Hands-On with Open Source Tools, Cognitive Class (An IBM Initiative) 2019

Data Science Methodology, Cognitive Class (An IBM Initiative) 2019

Cyber Resilient Energy Delivery Construction, Summer School Participation . 2017

HONORS AND AWARDS

First place winner at Grad show case poster presentation, ”Towards Dependable Deep CNNs with Out-distribution Learning ” 2018

CREDC summer school student scholarship 2017

GREPSECIII Workshop and IEEE Symposium on Security and Privacy student travel award 2017

Conference on Computer and Communications Security (CCS) workshop student travel award 2017

Annual Computer Security Applications Conference (ASCAC) student conferenceship award 2016

PUBLICATIONS AND MANUSCRIPTS

A. Rajabi , R. Bobba, M. Rosulek, C. Wright, W. Feng, On the (Im)Practicality of Adversarial Perturbation for Image Privacy, (Accepted in PETs 2021).

M. abbasi, **A. Rajabi** , C. Shui, C. Gagné, R. Bobba , Toward Adversarial Robustness by Diversity in an Ensemble of Specialized Deep Neural Network, Canadian AI 2020.

M. abbasi, C. Shui, **A. Rajabi** , C. Gagné, R. Bobba , Toward Metrics for Differentiating Out-of-Distribution Sets, European Conference on Artificial Intelligence (ECAI), 2020.

A. Rajabi , R. Bobba, Adversarial Profile: Detecting Out-distribution Samples and Adversarial Examples for Pre-trained CNNs , Dependable and Secure Machine Learning (DSML) 2019.

A. Rajabi and R. Bobba, False Data Detection in Distributed Oscillation Mode Estimation using Hierarchical K-means. IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm) 2019.

M. abbasi, **A. Rajabi** , C. Gagné, R. Bobba, Towards Dependable Deep Convolutional Neural Networks (CNNs) with Out-distribution Learning , (https://arxiv.org/abs/1804.08794, Accepted in DSML 2018).

A. Rajabi and R. Bobba, A Resilient Algorithm for Power System Mode Estimation using Synchrophasors. Proceedings of the 2nd Annual Industrial Control System Security Workshop. ACM, 2016.

M. Salehi, H. R. Rabiee and **A. Rajabi**, Sampling From Complex Networks With High Community Structures. Chaos: An Interdisciplinary Journal of Nonlinear Science, 2012.

M. Ramezani, , H. R. Rabiee, M. Tahani, and **A. Rajabi**. DANI: A Fast Diffusion Aware Network Inference Algorithm. arXiv preprint arXiv:1706.00941 (2017).

A. Rajabi and R. Bobba, A Fully Distributed Resilient Algorithm for Power System Mode Estimation using Synchrophasors , (Submitted to IEEE Transaction on Smart Grid).

WORK EXPERIENCE

Research Assistant, Oregon State University 2014

Research Assistant, Sharif University of Technology, Digital Media Lab 2011–2013

TEACHING EXPERIENCE

Computer Applications, Oregon State University Spring, 2019

Distributed Systems, Oregon State University Winter, 2019

Advanced Cyber-Security, Oregon State University Fall, 2018

Operating System, Oregon State University Winter, Spring & Summer 2015

Complex Networks, Sharif University of Technology Fall 2013

Multi Media Networks, Sharif University of Technology Spring 2012