Kursat Rasim Mestav

Cornell University
Electrical and Computer Engineering
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Education

Cornell University
Ph.D. Candidate, Electrical and Computer Engineering, August 2016 - Current.
Fields: Machine learning, and statistical inference with applications in energy and smart power systems.
Supervisor: Prof. Lang Tong

Bilkent University - Ankara, Turkey
B.S., Electrical and Electronics Engineering, September 2012 - May 2016.

Publications

Universal Data Anomaly Detection via Inverse Generative Adversary Network
K. R. Mestav, and L. Tong,
IEEE Signal Processing Letters, vol. 27, pp. 511-515, 2020.

State Estimation in Smart Distribution Systems with Deep Generative Adversary Networks
K. R. Mestav, and L. Tong,
IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids, Oct 2019.

Bayesian State Estimation for Unobservable Distribution Systems via Deep Learning
K. R. Mestav, J. Luengo-Rozas, and L. Tong,
IEEE Transactions on Power Systems, vol. 34, no. 6, pp. 4910–4920, Nov 2019.

Learning the Unobservable: High-Resolution State Estimation via Deep Learning
K. R. Mestav, and L. Tong
57th Annual Allerton Conference on Communication, Control, and Computing, December 2019

State Estimation for Unobservable Distribution Systems via Deep Neural Networks
K. R. Mestav, J. Luengo-Rozas, and L. Tong
IEEE Power Energy Society General Meeting, July 2018.

Industrial and Academic Experience

Visiting Researcher
Chalmers University of Technology, Gothenburg, Sweden, November - May 2019

Senior Project
Human Detecting and Tracking with Multi-sensor, September 2015 - May 2016

Internship at Fraunhofer IIS Nuremberg, Germany
GNSS CRPA Array Processing MATLAB Receiver, May 2015 - August 2015

Internship at Argela Inc., Development Labs, Ankara, Turkey
4G/LTE Communication System Development , June 2014 - July 2014

Awards and Fellowships

Best paper award, IEEE PESGM
May 2018 "State Estimation for Unobservable Distribution Systems via Deep Learning"

Irwin and Joan Jacobs Scholarship, awarded by Cornell University
Fall 2016

Full Undergraduate Stipend, awarded by Bilkent University.
2011-2016

Full Undergraduate Stipend, awarded by The Scientific and Technological Research Council of Turkey
Sep 2011 - May 2016

Gold Medal in Mathematics, International Zhautykov Olympiad Almaty, Kazakhstan
January 2011

Bronze Medal, The Mediterranean Mathematics Competition
March 2011

Intel International Science and Engineering Fair Finalist
March 2011

Teaching

Cornell University
Teaching Assistant, ECE 3100 Introduction to Probability and Inference for Random Signals and Systems, Spring 2018

Cornell University
Teaching Assistant, ECE 5970 Machine Learning with Biomedical Data, Fall 2017

Bilkent University
Teaching Assistant, Math 102 Calculus II, Spring 2014

Bilkent University
Teaching Assistant, CS 101 Algorithms and Programming I, Summer 2013

The Scientific and Technological Research Council of Turkey
Trainer, Turkish National Mathematical Olympiad Team Training Camp, 2013

Languages and Skills

Programming: Python, Java, MATLAB
Applications: LaTeX, MS Office
Languages: English (Proficient), Turkish (Native), German(Beginner)