Bashir Sadeghi

Department of Computer Science and Engineering
Michigan State University, MI, USA

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Research Interests: Machine Learning, Signal Processing, Deep Learning, Computer Vision

Education

Michigan State University, MI, USA

PhD Student, September 2016 - Present

- Topic: "Fair and Privacy Preserving Representation Learning"
- Advisor: Dr. Vishnu Boddeti
- GPA: 3.83/4

Eastern Mediterranean University, Famagusta, Northern Cyprus

PhD Student, September 2013 - June 2016

- Topic: "Generalized Sampling-Reconstruction Processes"
- Advisor: Dr. Runyi Yu
- GPA: 4/4

Eastern Mediterranean University, Famagusta, Northern Cyprus

M.Sc. Student, September 2011 - August 2013

- Topic: "Shift-Variance in Periodically Shift-Variant Systems"
- Advisor: Dr. Runyi Yu
- GPA: 4/4

Noshirvani University of Technology, Babol, Iran

B.Sc. Student, September 2003 - June 2008

- Topic: "Rectangular Carriers in Digital Communications"
- Advisor: Dr. Sara Minagar
- GPA: 3.5/4

Publications

Journal Papers:

B. Sadeghi, R. Yu, V. Boddeti, **"Constrained Sampling: Optimum Reconstruction in Subspace with Minimax Regret Constraint,"** In *IEEE Transactions on Signal Processing*, 2019. [**link**]

B. Sadeghi, R. Yu, R. Wang, **"Shifting Interpolation Kernel Toward Orthogonal Projection,"** In *IEEE Transactions on Signal Processing*, 2017. [**link**]

B. Sadeghi, R. Yu, **"Shift-variance and Nonstationarity of Linear Periodically Shift-Variant Systems and Applications to Generalized Sampling Processes,"** In *IEEE Transactions on Signal Processing*, 2016. [**link**]

Conference Papers:

B. Sadeghi, R. Yu, V. Boddeti, **"On the Global Optima of Kernelized Adversarial Representation Learning,"** In *Proceeding of IEEE International Conference on Computer Vision* (ICCV), 2019. [**link**]

B. Sadeghi, R. Yu, **"Shift-Variance and Cyclostationarity of Linear Periodically Shift-Variant Systems,"** In *10th International Conference of Sampling Theory and Applications* (SampTA), 2013. [**link**]

M.Sc. Thesis: [**link**]

Honors and Awards

Accepted in the first stage and **ranked 43rd** in the second stage of nationwide competition to select national Mathematics Olympiad team.

Ranked 1st among students of Signal Processing and Communications in M.Sc. based on GPA.

Granted fellowship from 10th International Conference of Sampling Theory and Applications (SampTA) as a junior researcher, summer 2013.

Academic

Teaching Assistant
Signals and Systems
Digital Signal Processing
Linear Control Systems
Digital Control
Electrical and Electronic Engineering
Eastern Mediterranean University

Teaching Assistant
Introduction to Programming
Computer Architecture
Computer Networks
Computer Science and Engineering
Michigan State University

Computer Skills

- **Programming Language:** C/C++, Python, Matlab
- **Deep Learning:** Pytorch

Reference

Dr. Vishnu Boddeti: Assistant Professor
Department of Computer Science and Engineering, Michigan State University
http://hal.cse.msu.edu/team/vishnu-boddeti/