

Shahryar Noei

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Date of Birth: November 12, 1990

Nationality: Iranian

Education

M.Sc. in Biomedical Engineering (Bioelectric)

Sep 2014-Jan 2017

Sharif University of Technology, Tehran, IRAN

Thesis Title: Classification of Motor Imagery in Electroencephalogram Signal Based on Spatio-Temporal Feature selection using Elastic Net (19.8/20)

GPA: 18.65/20

B.Sc. in Electrical Engineering (Electronics)

Sep 2009- Sep 2014

K.N Toosi University of Technology, Tehran, IRAN

B.Sc. Project: Design and Implementation of a Processor core by VHDL to Compress Neural Signals Using DWT transform and RLE coding (20/20)

GPA: 16.98/20

Research Interests

- Applied Machine Learning
 - Biomedical Signal and Image Processing
 - Brain Computer Interfaces
 - Other areas
- Statistical Machine Learning
 - Statistical Regression methods
 - Ensemble Methods
 - Independent Component Analysis (ICA)
- Neural Modeling
- Neuroscience

Publications

Conference papers:

- Sh. Noei, P. Ashtari, M. Jahed, and B. Vosoughi Vahdat, "Classification of EEG Signals Using the Spatio-Temporal Feature Selection via the Elastic Net," in *1st International Iranian Conference on Biomedical Engineering*, Tehran, Iran, 2016.
- Hariri, A., Hosseinzadeh, M., Noei, S., & Nasiriavanaki, M. R. (2017, March). Photoacoustic signal enhancement: towards utilization of very low-cost laser diodes in photoacoustic imaging. In *SPIE BiOS* (pp. 100645L-100645L). International Society for Optics and Photonics.
- Adabi, S., Conforto, S., Hosseinzadeh, M., Noe, S., Daveluy, S., Mehregan, D., & Nasiriavanaki, M. (2017). Textural Analysis of Optical Coherence Tomography Skin Images: quantitative differentiation between healthy and cancerous tissues. *PROGRESS IN BIOMEDICAL OPTICS AND IMAGING*, 10053, 100533F.

Languages

Persian: Native

English: Fluent

TOEFL: Reading: 30, Listening: 29, Speaking: 26, Writing: 28, Total: 113 (Sep 24, 2016)

Projects

- Path-based ISOMAP manifold learning Spring 2016
- ECG, EMG, Temperature Monitoring system Fall 2015
- Human-Machine Interactive Game Fall 2015
- Winton Stock Market challenge, Kaggle Fall 2015
- Kernel t-SNE Spring 2015
- Modeling cardiac pacemakers Fall 2014
- ADPCM decoder and encoder using VHDL Summer 2013
- Fast Fourier Transform using VHDL Spring 2012

Teaching Experiences

- Sharif University of Technology, Tehran Fall 2016
Teacher Assistant: Neural Modeling Dr. Bijan Vosoughi Vahdat
- Sharif University of Technology, Tehran Fall 2016
Teacher Assistant: BioInstrument, Dr. Mehran Jahed
- K.N Toosi University of Technology, Tehran Fall 2013
Teacher Assistant: FPGA course, Dr. Hossein Hosseininejad
- K.N Toosi University of Technology, Tehran Fall 2012
Teacher Assistant: Electrical Circuits II, Dr. Alireza Fereydounian
- Tazkiyeh High School, Tehran Fall 2010
Teaching Mathematics

Work Experiences

- TAP 30, Tehran Summer 2016-Winter 2017
Working on intelligent pricing algorithm based on machine learning techniques for online transportation network.
- Arsheh Jamejam, Tehran Summer 2012
Electronics Advisor for the design of the first digital piano made in Iran
- Tetis Company, Tehran Summer 2011
Design and implementation of a monitoring system for pressure sensors in airplanes fuel tanks

Computer Skills

Languages: C (familiar), VHDL, Python, R, AVR assembly

Software & Applications: Matlab, Proteus, Altium Designer, CodeVision, AVR Studio, Orcad, ISE

Extra-curricular

Reading books

Watching movies and anime

Gaming

Playing 3-Tar (Persian traditional music instrument)

References:

- **Dr. Mehran Jahed**
Assistant Professor, Bioelectric group of EE
department, Sharif University of Technology
Email: Jahed@sharif.edu
Tel: + 982166165937
- **Up to 4 additional references available on request**