Reza Eyvazpour

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Research Interest

- Biomedical Signal/Image Processing
- Hardware Implementation on FPGA
- Machine Leaning and machine Vision

Education

Academic Qualifications

- **Master of Science, Electronic Engineering, Digital Integrated Circuit Design** — **Tabriz, Iran**
  Faculty of Electrical and Computer Engineering, University of Tatbiz — *2017-2020*
  GPA:17.82/20
  Thesis field: Hardware Implementation of pose estimation algorithm for Augmented Reality Application

- **Bachelor of Science, Electronic Engineering** — **Bonab-Iran**
  Faculty of Engineering, University of Bonab — *2013-2017*
  GPA:18.50/20
  Thesis field: Evaluation of spasticity in knee joint using pendulum test

Publications

Journal Publications

- **Electroencephalographic Activity in Patients with Claustrophobia: A Pilot Study**
  D.Moradi, **R.Eyvazpour**, F.Rahimi, A.Jahan, S.H.Rasta, and M.Esmaeili
  Journal of Medical Signals & Sensors, 2020, (Submitted)

- **Objective assessment of spasticity by pendulum test: a systematic review on methods of implementation and outcome measures**
  F.Rahimi, **R.Eyvazpour**, N.Salahshour, and M.R.Azghani
  BioMedical Engineering OnLine, 2020, (Under Review)

- **Crossing obstacles in a walkway: on the capability of wavelet-based detection strategies using wearable sensor data**
  F.Rahimi, **R.Eyvazpour**, B.Nobahar, M.Jog, and C.Duval
  Journal of Advanced Signal Processing, 2020, (Under Review, In Persian Language)

Conference Publications

- **An Accelerometer-Based Objective Assessment of Spasticity: A Simple Pendulum Model to Evaluate Outcome Measures**
  F.Rahimi, N.Salahshour, **R.Eyvazpour**, and M.R.Azghani
  International Iranian conference on Biomedical Engineering (ICBME 2020), 2020, (Submitted)

Research Experience

Accelerating Pose Estimation Algorithm on Hardware Platform

- Implementation of visual odometry estimation algorithm on FPGA, (in Progress).
- Hardware Implementation of SLAM Algorithm: A survey, (in Progress).

Biomedical signal and data Processing for Neuroscience

- Electroencephalographic Activity in Patients with Claustrophobia: A Pilot Study, 2020.

Objective evaluation and Quantitative (sensor-based) analysis of movement

- Objective assessment of spasticity by pendulum test: a systematic review on methods of implementation and outcome measures, 2020.
- An Accelerometer-Based Objective Assessment of Spasticity: A Simple Pendulum Model to Evaluate Outcome Measures, 2020.
- Crossing obstacles in a walkway: on the capability of wavelet-based detection strategies using wearable sensor data, 2020.

Teaching Experiences

Teaching Assistant

- Introduction to Electrical Engineering, University of Bonab, Fall 2019,2018.
- Computer aided design of digital systems, University of Tabriz, Fall 2018.

Lab Assistant

- Instrumentation Laboratory, University of Bonab, Spring 2017.

Workshop

- Matlab Programming for neuroscientists, University of Tabriz, Fall 2020.
- Microcontroller Programming for Biomedical Instrumentation,NeuroMethods Summer school, Tabriz university of Medical science, Summer 2017.

Honors and Awards

- Ranked 2rd among M.Sc Electronic(Integrated Circuit Design) Engineering students, 2020.
- Qualified to graduate studies (MS) in Univeristy of Tabriz without entrance exam, 2017.
- Ranked 1rd among B.Sc Electrical Engineering students, 2017.

Technical Skills

- **Programming Languages:** C/C++, Python, Octave, R Programming.
- **Hardware Description Languages:** VHDL, Verilog.
- **Technical Tools:** Xilinx Vivado, Xilinx ISE, Altera Quartus, ModelSim, Matlab, Altium Designer.
- **Typesetting:** TEX, Microsoft Office(Word, Power Point, Excel).

Selected Courses

Academic courses

- VHDL ,Univeristy of Tabriz, 2018.
- Machine Vision ,Univeristy of Tabriz, 2018.
- Advanced Digital Electronic ,Univeristy of Tabriz, 2017.

Online Courses

- Neural Networks and Deep Learning ,Coursera, 2020.
- Data visualization in python for Machine Learning Engineers ,Udemy, 2020.

Languages

Azeri: Mother-tongue

Persian: Working Proficiency

English: Working Proficiency

References

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