

Reza Eyvazpour

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Education

Academic Qualifications.....

- **PhD, Biomedical Engineering** **Tehran, Iran**
○ *Department of Biomedical Engineering, Iran University of Science and Technology(IUST)* *2021-in Progress*
GPA: --/20
Thesis field: --
- **Master of Science, Electronic Engineering, Digital Integrated Circuit Design** **Tabriz, Iran**
○ *Faculty of Electrical and Computer Engineering, University of Tabriz* *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

Research Interest

- Biomedical/Neural Engineering
- Cognitive/Computational Neuroscience
- Pattern Recognition
- Objective evaluation and Quantitative analysis of movement
- Hardware Implementation

Publications

Journal Publications.....

- **Facial emotion recognition predicts alexithymia using machine learning**
N.Farhoumandi, S.Mollaey, S.Heysiattalab, M.Zarean, and **R.Eyvazpour**
Computational Intelligence and Neuroscience, 2021
- **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
- **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
- **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, (In Persian Language)

Under Review Manuscripts.....

- **Hardware Implementation of SLAM Algorithms: A Survey on Implementation Approaches and Platforms**
R.Eyvazpour, M.Shouran, and G.Karimian
Artificial Intelligence Review (IF:8.1), 2021
- **Cross-Subject Classifying Risk-take and Risk-Averse Managers: Applying machine learning techniques for Resting-State EEG Data**
R.Eyvazpour, E.Shakeri, S.Heysiattalab, and H.Dezghanan
2021
- **Neural Activity in Claustrophobic patients under in-vivo stimuli: A Human Electroencephalography Dataset**
D.Moradi, F.Rahimi, R.Eyvazpour, A.Jahan, S.H.Rasta, and M.Esmaeili
Data in brief, 2021

Conference Publications.....

- **Fuzzy Cluster Analysis of Claustrophobia Questionnaire Data in Iranian Male and Female Educated Populations**
D.Moradi, R.Eyvazpour, S.A.T.Hosseini, Y.Donyatalab, and F.Rahimi
International Conference on Intelligent and Fuzzy Systems (INFUS 2021), 2021.
- **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.

Research Experience

Doctoral Research

- Neural Engineering.

Research Assistant

- Participated in groundbreaking research in the areas of Objective and Quantitative analysis of movement.
- Collaborated with other members of the team to perform and write scientific experiments.

Cognitive/Computational Neuroscience and Brain Research

- Brain Activity in Patients with Claustrophobia.
- Brain Activity in Risky-decision-making in managers.
- Using Machine learning Method for questioners Data in Psychological diseases.

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

- Objective assessment of spasticity by pendulum test.
- Evaluation of Parkinson's patients using wearable sensors.
- Evaluation of Proprioception.

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

- Qualified to PhD in Iran University of Science and Technology(IUST) without entrance exam, 2021.
- 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:** T_EX, Microsoft Office(Word, Power Point, Excel).

Selected Courses

Academic courses.....

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

Online Courses.....

- Fundamental of Cognitive Neuroscience, brain gym academy, 2021.
- Cognitive Neuroscience Methods Course, brain gym academy, 2021.
- Neural Networks and Deep Learning, Coursera, 2020.
- Data visualization in python for Machine Learning Engineers, Udemy, 2020.

Workshop.....

- Brain Imaging Online Workshop (Structural and Functional), brain gym academy, 2021.
- Transcranial Electrical Brain Stimulation Online workshop (Structural and Functional), brain gym academy, 2021.

Languages

Azeri: Mother-tongue

Persian: Working Proficiency

References

Abbas Erfanian

Iran University of Science and Technology
Full Professor, Department of Biomedical Engineering
Director Neural Engineering Center
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