Sam Sharifzadeh Javidi

samjavidi@outlook.Com   **Tehran, Iran**   **date of birth: 24.03.1986**

Education

PhD of Bio-electric Engineering

Tehran University of Medical Sciences

Feb 2015 – June 2021

Thesis title: Extracting perfusion information from diffusion weighted MRI

Courses: Advanced Medical image processing, Biomedical signal processing, Advanced imaging (CT, MRI, PET, Ultrasound),

Master of Science in Bio-Electric Engineering

Shiraz University

Shiraz, Iran

Sept 2011 – Oct 2013

Courses: Image processing, Digital signal processing, Pattern recognition, Fuzzy logic

Bachelor of Science in Electronic Engineering

Shahid Chamran University

Ahvaz, Iran

 Sep 2005 – July 2010

PROJECTS

Extracting Perfusion Information from Diffusion Weighted MRI

The Least Needed SNR to Get Valid Outputs is Calculated.

Noise Reduction Images to Estimate Perfusion Parameters.

An alternative imaging to get better SNR and providing more accurate parameters

Feature Extraction and Classification of EEG Signals to Detect Epileptic Seizures (Master Thesis)

Developed a Hybrid Method Using Time-frequency Domain and Fractional Fourier Transform.

Neurofeedback

Processing EEG Signals to Remove Low and High Artifacts and Also Determine θ, δ, α, β and γ Frequency Bands.

Design a GUI to Give Feedback to Client and Also Show Analyzed Signal to User.

SKILLS

FSL, SPM, ExploreDTI, DiPy, Nipy, Nilearn

MATLAB, C++, Python,

Image Processing, Signal Processing

MS Office (Word, Excel, Powerpoint)

Endnote, LₐTEₓ

EXPERIENCE

Biomedical Researcher

Medical Instruments Research Center Of Tehran University Of Medical Sciences Jan 2018 –Present
Tehran, Iran

Research on a Noninvasive MR Perfusion Imaging Model.

Designing a python software in order to classify Alzhimer's , MCI and normal based on T1 volumetery and DTI

Technical Engineer

Farmedtajhiz Ltd.   Dec 2015 –2018   Tehran, Iran

Research and Development of Producing Eye-Tracker Equipment.

Research and Development of Producing Neurofeedback Equipment.

Teaching and Supporting Customers to Use Equipment like rTMS, tDCS, ECT

Biomedical Engineer

Iranian Space Agency (Mechanic Research Center) Oct 2013 – May 2014 Shiraz, Iran

Research and Development of Medical Equipment to Record and Transmit Vital Signals of Astronaut.

Working with Team on Design, Development and Integration of a System to Record and Transmit Vital Signals.

Publications

Published

- ❖ Sharifzadeh Javidi S, Saligheh Rad H. Intra-Voxel Incohreent Motion Reconstruction with Multi-Orientation Acquisition using Three b-Values, ISMRM. 2021
- ❖ Sharifzadeh Javidi S, Saligheh Rad H. Using Kalman Filter to Improve the Accuracy of Diffusion Coefficients in MR Imaging: A Simulation Study, Iran J Radiol. 2019 ; 16(Special Issue):e99153. doi: 10.5812/iranjradiol.99153.

- ❖ S. Sharifzadeh, F. Tajeripoor, Improve Recognition of Epilepsy by Make a Difference in Wigner-Vile Distribution," 11th international congress on epilepsy "2015, Tehran, Iran
- ❖ S. Sharifzadeh, F. Tajeripoor, Combination of Factional Fourier Transform and Time-Frequency Plane to Classify Epileptic Signals,"3th Basic and Clinical Neuroscience Congress 2014", Tehran, Iran

Accepted

- ❖ Sharifzadeh Javidi S, Shirazinodeh A, Saligheh Rad H. Intravoxel Incoherent Motion Quantification is Dependent on Measurement SNR and Tissue Perfusion: a simulation study. J Biomed Phys Eng. 2021

Submitted

- ❖ Sharifzadeh Javidi S, Saligheh Rad H. A Reproducible Intravoxel Incoherent Motion Imaging Based on SNR Enhancement Employing Independent Component Analysis.2021
- ❖ Sharifzadeh Javidi S, Ahadi R, Saligheh Rad H. A Reproducible Hybrid IVIM-DTI Model with Optimized Acquisition Time Employing Kalman Filter.2021