

CURRICULUM VITAE



Sajjad Farashi, PhD

Assistant professor, Biomedical Engineering

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Degree

- B.Sc(2002-2006) Department of Electrical and computer engineering, School of engineering, Yazd University, Yazd, Iran.
- M.Sc (2008-2010) Biomedical engineering of Medical Physics and Biomedical Engineering Department, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran.
- Ph.D (2012-2018) Department of Medical Physics & Biomedical Engineering, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Techniques

1-Software: MATLAB, LABVIEW, STATA, R statistical analysis, PHP, JavaScript, HTML, CSS

2- Meta-analysis

3- Design electronic materials using Protel DXP

Position Held

- Research assistant professor, Hamadan University of Medical sciences, Hamadan, Iran (2018-so far).
- Researcher, Shahid Beheshti University, Institute for Cognitive and Brain Sciences , Tehran, Iran (2014-2018).
- Researcher, Research Centre for Science and Technology in Medicine Tehran University of Medical Sciences (2008-2009).

Referee/Reviewer Consultancy

- Biomedical Signal Processing and Control (Elsevier)
- Neural Networks (Elsevier)
- Physical Engineering in Science and Medicine(Springer)
- Computers Methods and Programs in Biomedicine (Elsevier)

Book and Chaptures

- An Education course for EndNote (First Edition), Sajjad Farashi, Kian Publication, 2015.
- Principles of medical imaging systems (Second Edition), Ahmad Mostaar, Mohammad Houshyari, Sajjad Farashi, Fatemeh Roustaa, Fahimeh Mohagheghian, Sepid Bargh Publication , 2020.
- Applied Matlab Education in Cognitive Science, Sajjad Farashi (First Edition), Noavar Publication, 2019.

Journal Papers

1. Effect of printing parameters on the tensile strength of FDM 3D samples: A meta-analysis focusing on layer thickness and sample orientation, S Farashi, F Vafae, Progress in Additive Manufacturing, 1-9, 2021
2. Effect of extruder temperature and printing speed on the tensile strength of Fused Deposition Modeling (FDM) 3D printed samples: A meta-analysis study, S Farashi, F Vafae, International Journal on Interactive Design and Manufacturing, 1-10, 2021
3. Distinctive prosodic features of people with autism spectrum disorder: a systematic review and meta-analysis study, SZ Asghari, S Farashi, S Bashirian, E Jenabi, Scientific Reports 11, 1-17, 2021
4. Analysis of the stance phase of the gait cycle in Parkinson's disease and its potency for Parkinson's disease discrimination, S Farashi, Journal of Biomechanics 129, 110818, 2021
5. State-of-the-art technologies in Parkinson's disease rehabilitation: A review article, S. Farashi, S Khazaie, M Rezaie, Modern Rehabilitation, In press
6. Effect of exercise on Parkinson's disease tremor: A meta-analysis study, S Farashi, L Kiani, S Bashirian, Tremor and Other Hyperkinetic Movements, 1-8, 2021
7. Analysis of vertical eye movements in Parkinson's disease and its potential for diagnosis, S Farashi, Applied Intelligence, 1-8, In Press, 2021

8. Cell-Cell Coupling And Cell Hubness Make a Cell More Resistant Against Low-Frequency Electromagnetic Stress: A Computational Modeling Study, <u>S Farashi</u> , International Journal of Scientific Research Biological Sciences 8 (1), 36-49, 2021
9. A complementary webometric ranking system based on the website quality and traffic measures: A study focusing on top-ranked world universities, <u>S Farashi</u> , S Bashirian, Education for Information, 1-18, 2021
10. Stem cell behavior at hypothermia: A review article, <u>S Farashi</u> , E Sharifi, Current stem cell research & therapy, 2021, In press
11. EEG based emotion recognition using minimum spanning tree, <u>S Farashi</u> , R Khosrowabadi, Physical and Engineering Sciences in Medicine 43 (3), 985-996, 2020
12. Distinguishing between Parkinson's disease patients and healthy individuals using a comprehensive set of time, frequency and time-frequency features extracted from vertical ..., <u>S Farashi</u> , Biomedical Signal Processing and Control 62, 2020
13. Comparison between Top-Ranked Iranian Medical Universities and Top-Ranked World Universities based on the Website Analysis, <u>S Farashi</u> , S Bashirian, S Zareian, International Journal of Information Science and Management 18 (2), 203, 2020
14. Discrimination of ADHD Subtypes Using Decision Tree on Behavioral, Neuropsychological and Neural Markers, M Rostami, <u>S Farashi</u> , R Khosrowabadi, H Pouretamad, Basic and Clinical Neuroscience 11 (3), 359-368, 2020
15. The Webometric Evaluation for Hamadan University of Medical Sciences in Comparison with Top-ranked World and Iranian Medical Universities, <u>S Farashi</u> , S Bashirian, S Zareian, Pajouhan Scientific Journal 18 (1), 37-48, 2019
16. The application of EEG power for the prediction and interpretation of consumer decision-making: a neuromarketing study, P Golnar-Nik, <u>S Farashi</u> , MS Safari, Physiology & behavior 207, 90-98, 2019
17. The role of the transient receptor potential melastatin5 (TRPM5) channels in the pancreatic β -cell electrical activity: A computational modeling study, <u>S Farashi</u> , P Sasanpour, H Rafei-Tabar, Computational biology and chemistry 76, 101-108, 2018
18. Spike detection using a multiresolution entropy based method, <u>S Farashi</u> , Biomedical Engineering/Biomedizinische Technik 63 (4), 361-376, 2018
19. Investigation of the role of ion channels in human pancreatic β -cell hubs: A mathematical modeling study, <u>S Farashi</u> , P Sasanpour, H Rafei-Tabar, Computers in biology and medicine 97, 50-62, 2018
20. Corrosion of mild steel in hydrochloric acid solution in the presence of two cationic gemini surfactants with and without hydroxyl substituted spacers, M Mahdavian, AR Tehrani-Bagha, E Alibakhshi, S Ashhari, MJ Palimi, <u>Sajad Farashi</u> , Fatemeh Ektefa, Corrosion Science 137, 62-75, 2018
21. Computational Modeling of the Effect of Temperature Variations on Human Pancreatic β -Cell Activity, <u>S Farashi</u> , P Sasanpour, H Rafei Tabar, Journal of Thermal Biology, 75:69-80, 2018
22. Interaction of Low Frequency External Electric Fields and Pancreatic β -Cell: A Mathematical Modeling Approach to Identify the Influence of Excitation Parameters, <u>S Farashi</u> , P Sasanpour, H Rafei-Tabar, International Journal of Radiation Biology, 94(11):1038-1048, 2018
23. Enhancement of silane coating protective performance by using a polydimethylsiloxane additive, M Mahdavian, B Ramezanzadeh, M Akbarian, M Ramezanzadeh, <u>S Farashi</u> , Journal of Industrial and Engineering Chemistry 55, 244-252, 2017

24. Interaction between pancreatic β cell and electromagnetic fields: A systematic study toward finding the natural frequency spectrum of β cell system, <u>S Farashi</u> , <i>Electromagnetic biology and medicine</i> 36 (4), 341-356, 2017
25. Active corrosion protection of Mg-Al-PO ₄ LDH nanoparticle in silane primer coated with epoxy on mild steel, E Alibakhshi, E Ghasemi, M Mahdavian, B Ramezanzadeh, <u>S Farashi</u> , <i>Journal of the Taiwan Institute of Chemical Engineers</i> 75, 248-262, 2017
26. A multiresolution time-dependent entropy method for QRS complex detection, <u>S Farashi</u> , <i>Biomedical Signal Processing and Control</i> 24, 63-71, 2016
27. Fabrication and characterization of PO ₄ intercalated Zn-Al-layered double hydroxide nanocontainer, E Alibakhshi, E Ghasemi, M Mahdavian, B Ramezanzadeh, <u>S Farashi</u> , <i>Journal of The Electrochemical Society</i> 163 (8), C495, 2016
28. Genetic Algorithm Framework for Spike Sorting, <u>S Farashi</u> , M Mikaili, <i>International Journal of Image, Graphics and Signal Processing</i> 7 (4), 42, 2015
29. Spike sorting method using exponential autoregressive modeling of action potentials, <u>S Farashi</u> , <i>International Journal of Biomedical and Biological Engineering</i> 8 (12), 864-870, 2015
30. Spike sorting method using exponential autoregressive modeling of action potentials, <u>S Farashi</u> , <i>International Journal of Biomedical and Biological Engineering</i> 8 (12), 864-870, 2015

Conference and Congress Papers

1. Combination of PCA and undecimated wavelet transform for neural data processing S Farashi, MD Abolhassani, Y Salimpour, J Alirezaie, 2010 Annual International Conference of the IEEE Engineering in Medicine and
2. Nano-clay as an ion exchange reservoir for corrosion inhibition, Ramezanzadeh B., Ghasemi E., Mahdavian M., Farashi S., Ghazi A. European Corrosion Congress, EUROCORR 2016 : Volume 4, 2016 , Pages 2878-2884
3. Evaluation of the active corrosion protection and self-healing properties of a silane sol-gel coating doped with Zn-Al-PO₄ 3-layered double hydroxide nanoparticles, E Alibakhshi, E Ghasemi, M Mahdavian, B Ramezanzadeh, S Farashi, European Corrosion Congress, EUROCORR 2016 : Volume 4, 2016 , Pages 1-8