

Mehrdad Dadgostar C.V.

Personal Information

Name: Mehrdad Dadgostar

Present position: PhD, Assistant professor

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Education

PhD in Biomedical Engineering (Bioelectric), Islamic Azad University Science and Research Branch, Tehran, Iran, 2016. PhD thesis: “*Effect of reduce interference on the extraction of functional connections from the surface of the frontal brain of schizophrenic patients using near-infrared spectroscopy*” with an excellent mark “A+”.

MSc in Biomedical engineering (Bioelectric), Islamic Azad University Science and Research Branch, Tehran, Iran, 2007. MS thesis “*Fingerprint Classification with Support Vector Machines*” “with an excellent mark “A+”.

BSc in Biomedical engineering (Bioelectric), Islamic Azad University Science and Research Branch, Tehran, Iran 2004.

Research Interest

- Functional Near-infrared Spectroscopy (fNIRS)
- Functional Neuroimaging
- Cognitive Neuroscience
- Biological signal Processing
- Image Processing
- Biometrics
- Pattern Recognition
- Machine Vision

Memberships

- Society for Functional Near Infrared Spectroscopy (SfNIRS)
- Iranian Society for Cognitive Science and Technology (ISCST)
- Iranian Society for Biomedical Engineering (ISBME)
- Institute of Electrical and Electronics Engineers (IEEE)

Organizer of Workshop

1. One Day Seminar on “the Application of Brain Mapping in Psychiatry”, March 2018, NBML, Tehran, IRAN
2. Two Day Brain Mapping Skills Training Seminar (Mazandaran), December 2017, NBML, Tehran, IRAN.
3. Two Day Brain Mapping Skills Training Seminar (Kermanshah), November 2017, NBML, Tehran, IRAN.
4. Two Day Brain Mapping Skills Training Seminar (East Azarbaijan), September 2017, NBML, Tehran, IRAN.
5. Two Day Brain Mapping Skills Training Seminar (Khorasan), August 2017, NBML, Tehran, IRAN.
6. One-day fNIRS workshop, theory, implementation and signal processing. February 2017, NBML, Tehran, IRAN.
7. 1st Iranian IBRO/APRC School of Cognitive Neuroscience on Human Brain Mapping 2016 as Instructor of the fNIRS School.

Publication

Journals:

- 1- Studies on Schizophrenia and Depressive Diseases Based on functional Near-infrared Spectroscopy, Sh. Barahimi, Z. Einalou, **M. Dadgostar**. Biomedical Engineering: Applications, Basis and Communications, (2018). (In Press)
- 2- Mesenteric Lymph Nodes in MR Enterography: Are They Reliable Followers of Bowel in Active Crohn's Disease?, A.R. Radmard, R. Eftekhari Vaghefi, S.A. Montazeri, S. Naybandi Atashi; A.P. Hashemi Taheri, S. Haghighi, A.Salehnia; **M. Dadgostar**, R Malekzadeh. European Radiology, (2018). (In Press)
- 3- Automatic Segmentation of Breast Tissue Thermal Images, Z. Heidari, **M. Dadgostar**, Z. Einalou. Biomedical Engineering: Applications, Basis and Communications, (2018). (In Press)
- 4- Classification of Schizophrenia using SVM via fNIRS, **M. Dadgostar**, S. K. Setarehdan, S. Shahzadi and A. Akin. Biomedical Engineering: Applications, Basis and Communications, (2018).
- 5- Assessment of Abdominal Fat Distribution in Non-Alcoholic Fatty Liver Disease by Magnetic Resonance Imaging: a Population-based Study, A. R. Radmard, M. S. Rahmadian, A. Abrishami, A. Yoonessi, S. Kooraki, **M. Dadgostar**, A. P. Hashemi Taheri, M. Gerami Seresht, H. Poustchi, E. Jafari, R. Malekzadeh and S. Merat. Archives of Iranian Medicine, Volume 19, Issue 10, (2016), Pages 693.

- 6- Central Obesity and Liver Iron Content: A Noninvasive Assessment in General Population by Magnetic Resonance Imaging, A.R. Radmard, H. Poustchi, A.P. Hashemi Taheri, M. Gerami Seresht, P. Mohammadinejad, A. Yoonessi, **M. Dadgostar**, M.S. Rahmanian, E. Jafari, A. Zeinoddini, R. Malekzadeh and S. Merat. *Annals of Nutrition and Metabolism*, Volume 69, Issue 3-4, (2016), Pages 181-189.
- 7- Functional connectivity of the PFC via partial correlation, **M. Dadgostar**, S. K. Setarehdan, S. Shahzadi and A. Akin. *Optik - International Journal for Light and Electron Optics*, Volume 127, Issue 11, (2016), Pages 4748-4754.
- 8- Liver Enzyme Levels and Hepatic Iron Content in Fatty Liver: A Noninvasive Assessment in General Population by T2* Mapping, A.R. Radmard, H. Poustchi, **M. Dadgostar**, A. Yoonessi, S. Kooraki, E. Jafari, Amir P. Hashemi Taheri, R. Malekzadeh, and Sh. Merat. *Academic radiology*, Volume 22, Issue 6, (2015): 714-721.
- 9- Application of ultrasound elastography for determining carpal tunnel syndrome severity, M. Ghajarzadeh, **M. Dadgostar**, P. Sarraf, S.Z. Emami-Razavi, S. Miri and M. Malek. *Japanese journal of radiology*, Volume 33, Issue 5, (2015), 273-278.

Conferences:

- 1- Reduce Physiological Interactions in Near-Infrared Spectroscopy Signals Using Wavelet Transform, F. Aliabadi Farahani, **M. Dadgostar**, Z. Einalou, 2017, 4th international conference on mathematical modeling in Engineering sciences, 26 Oct, Abhar, Iran. (Persian)
- 2- Functional Connectivity of the PFC via Empirical Mode Decomposition, **M. Dadgostar**, S. K. Setarehdan, S. Shahzadi and A. Akin. 7th International Conference of Cognitive Science (ICCS 2017), 30 Apr - 04 May, 2017, Tehran, Iran.
- 3- Motion Artifact removal for Functional Near-Infrared Spectroscopy, **M. Dadgostar**, S.K. Setarehdan, A. Akin, Functional Near Infrared Spectroscopy Conference, 13-16 Oct. 2016, Paris, France.
- 4- Functional Connectivity of the PFC via Magnitude Squared Coherence, **M. Dadgostar**, S.K. Setarehdan, A. Akin, 6th International Conference of Cognitive Science (ICCS 2015), 27-29 April, 2015, Tehran, Iran.
- 5- Functional Connectivity of the PFC via Wavelet Partial Correlation Analysis, **M. Dadgostar**, S.K. Setarehdan, A. Akin, Functional Near Infrared Spectroscopy Conference, 10-12 Oct. 2014, Page: 64, Montreal, Quebec, Canada.
- 6- Detection of Motion Artifacts in fNIRS via the Continuous Wavelet Transform, **M. Dadgostar**, S.K. Setarehdan, A. Akin, 20st Iranian Conference on Biomedical Engineering (ICBME 2013), 18-20 Dec. 2013, Tehran, Iran.
- 7- Comparison of Mutual Information and Partial Correlation for Functional Connectivity in fNIRS, **M. Dadgostar**, Z. Einalou, S.K. Setarehdan, H.Y. Keskin-Ergen, A. Akin, 21st Iranian Conference on Electrical Engineering (ICEE 2013), 14-16 May. 2013, Mashhad, Iran.
- 8- Graph Theoretical Approach to Functional Connectivity of Cognition via fNIRS, Z. Einalou, K. Maghooli, **M. Dadgostar**, S.K. Setarehdan, A. Akin, 5th International Conference of Cognitive Science (ICCS 2013), 7-9 May. 2013, Page: 173, Tehran, Iran.

- 9- Functional Near Infrared Spectroscopy to Investigation of Functional Connectivity in Schizophrenia using Mutual Information, **M. Dadgostar**, Z. Einalou, S.K. Setarehdan, A. Akin, 5th International Conference of Cognitive Science (ICCS 2013), 7-9 May. 2013, Page: 175, Tehran, Iran.
- 10- Functional Connectivity of the PFC via Partial Correlation Analysis, Z. Einalou, **M. Dadgostar**, K. Maghooli, S.K. Setarehdan, H.Y. Keskin-Ergen, A. Akin, Functional Near Infrared Spectroscopy Conference, 26-28 Oct. 2012, Page: 28, University College London.
- 11- Comparison of Denoising Algorithms in fNIRS, **M.Dadgostar**, Z. Einalou, S.K.Setarehdan, H.Y.Keskin-Ergen, A.Akin, Functional Near Infrared Spectroscopy Conference, 26-28 Oct. 2012, Page: 91, University College London.
- 12- Feature Extraction Using Gabor-Filter and Recursive Fisher Linear Discriminant with Application in Fingerprint Identification, **M. Dadgostar**, P.R. Tabrizi, E. Fatemizadeh, H. Soltanian-Zadeh, Seventh International Conference on Advances in Pattern Recognition, 4-6 Feb. 2009, Pages: 217 – 220, IEEE 2009.
- 13- Adaptive Watermarking Scheme Based on ICA and RDWT, S. Ghaedioskoei, **M. Dadgostar**, G. Rezairad, E. Fatemizadeh, 3rd International Conference on Imaging for Crime Detection and Prevention (ICDP-09), 3 Dec. IEEE 2009.
- 14- Fingerprint Classification using Gabor Filter, **M. Dadgostar**, E. Fatemizadeh, M.B Shamsolahi, 5th Iranian Conference on Machine Vision and Image Processing University of Tabriz, Iran 2008. (Persian)
- 15- Reference point in a fingerprint recognition method based on a complex combination of filters and image direction, **M. Dadgostar**, E. Fatemizadeh, M.B Shamsolahi, 15th Iranian Conference on Electronic Engineering, Tehran, Iran (ICEE 2007). (Persian)
- 16- Fingerprint classification using mathematical methods, **M. Dadgostar**, E. Fatemizadeh, MED & LAB Engineering Magazine, Volume 6, Issue 61, (2006). <http://www.iranbmemag.com>. (Persian)