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Publications

1. Bajestani, G.S., Ghanizadeh, A., Makhlooghi, F., Hosseinpour Kharrazi, F., Hosseini, A. and Toosi, M.B., 2024. The Impact of Blended Mindfulness Intervention (BMI) on University Students' Sustained Attention, Working Memory, Academic Achievement, and Electroencephalogram (EEG) Asymmetry. *Mindfulness*, pp.1-14.M. McGuire, A. Movahedian, and M. Sima, "Zero phase smoothing of radio channel estimates," in Signal Processing Conference (EUSIPCO), 2012 Proceedings of the 20th European, Aug. 2012, pp. 1608 –1612.
2. Abedian, S., Bajestani, G.S., Saeedi, H. and Makhlooghi, F., 2024. Diagnosis of Adult ADHD Using EEG Signals Based on the Spectrogram and Convolutional Neural Networks. *International Journal of Computational Intelligence and Applications*, p.2350034.
3. Ramezanpoor, Z., Ghazikhani, A. and Bajestani, G.S., 2024. A generalized visibility graph algorithm for analyzing biological time series having rotation in polar plane. *Engineering Applications of Artificial Intelligence*, 128, p.107557.
4. Dadjoo, M., Rezaei, S., Rohampour, K., Naseh, A. and Sadeghi Bajestani, G., 2024. Artificial Neural Network in Autism Spectrum Disorder Diagnosis Based on Quantitative Electroencephalography. *Caspian Journal of Neurological Sciences*, 10(1), pp.20-30.
5. Salehi Yekta, M., Zamani Bahabadi, A. and Sadeghi Bajestani, G., 2023. An Analytic Investigation of Hopf Bifurcation Location Control for the Rulkov Map Model. *International Journal of Bifurcation and Chaos*, 33(12), p.2330029.
6. Sheibani, R., Sadeghi Bajestani, G. and Goshvarpour, A., 2023. Study of Interactive Variation Between Brain and Heart Signals While Listening to the Holy Quran by Fusion Technique. *Caspian Journal of Neurological Sciences*, 9(2), pp.78-91.
7. Razmpour, F., Daryabeygi-Khotbehsara, R., Soleimani, D., Asgharnezhad, H., Shamsi, A., Bajestani, G.S., Nematy, M., Pour, M.R., Maddison, R. and Islam, S.M.S., 2023. Application of machine learning in predicting non-alcoholic fatty liver disease using anthropometric and body composition indices. *Scientific reports*, 13(1), p.4942.
8. Karimui, R.Y., Bajestani, G.S. and Sheikholeslami, B., 2022. The ADHD effects on partial opposites in trigonometric plots obtained from the EEG signals. *Chaos, Solitons & Fractals*, 158, p.112021.
9. Yaghoubian, E., Sadeghi Bajestani, G. and Namdari, H., 2021. Differentiation of Healthy Individuals from Those with Autism Spectrum Disorders using Information Graph of Complementary Opposites. *Avicenna Journal of Neuro Psycho Physiology*, 8(3), pp.115-123.
10. Saffari, S.Z., Tabatabaey-Mashadi, N., Bajestani, G.S., Razmpour, F. and Alamdaran, S.A., 2021. Challenging the published fatty liver disease integrated index based on ultrasound images. *Biomedical Signal Processing and Control*, 67, p.102552.

11. Tatar, S., Azimkhani, A., Sadeghi Bajestani, G. and Abbasian, S., 2021. The Comparison of the effects of yoga, TRX, and combined exercises on pain perception and lordosis angle in women with chronic low back pain and increased lordosis. *Sport Sciences and Health Research*, 13(2), pp.179-186.
12. Zarifiyan Irani Nezhad, R., Sadeghi Bajestani, G., Yaghoobi Karimui, R., Sheikholeslami, B. and Ashrafzadeh, F., 2021. Classifying the Epilepsy Based on the Phase Space Sorted With the Radial Poincaré Sections in Electroencephalography. *Caspian Journal of Neurological Sciences*, 7(2), pp.60-73.
13. Ghoreishi, N., Zare Molkabad, S., Baratzade, S., Goshvarpour, A. and Sadeghi Bajestani, G., 2021. Analysis of Electroencephalogram of Autism Spectrum Disorder Using Correlation Dimension Changes in brain Map. *The Neuroscience Journal of Shefaye Khatam*, 9(2), pp.10-21.
14. Ilani, S., Tabatabaey-Mashadi, N., Sadeghi Bajestani, G., Barazandeh, B. (2021). 'A Review of OCT Corneal Image Segmentation and Topography of Layer Depths', *Journal of Machine Vision and Image Processing*, 7(2), pp. 119-136.
15. Sheikholeslami, Behnaz, SADEGHI BAJESTANI, GHASEM, Yaghoobi Karimui, Reza, & Zarifiyan, Reyhaneh. (2021). *Separating the Healthy and ADHD People in Childhood and Adulthood using the EEG Phase Space Sorted by the Radial Poincare Sections. IRANIAN JOURNAL OF BIOMEDICAL ENGINEERING*, 15(1), 29-46. SID. <https://sid.ir/paper/985152/en>
16. Barati Moghadam, Z., Ghaemian, Z., Sahebalam, N., Goshvarpour, A., Sadeghi Bajestani, G. (2020). 'Gender Differences in Cardiovascular Performance While Running at Maximum Heart Rate: Emphasis on Phase Space Dynamic', *Journal of Applied Exercise Physiology*, 16(31), pp. 71-87. doi: 10.22080/jaep.2020.18024.1927
17. Dasar, F., Ghoshuni, M. and Sadeghi Bajestani, G., 2020. Evaluation of Auditory System Abnormalities in Autism Spectrum Disorder using Event Related Potentials (ERPs). *Iranian Journal of Biomedical Engineering*, 14(1), pp.13-22.
18. Bajestani, G.S., Behrooz, M., Khani, A.G., Nouri-Baygi, M. and Mollaei, A., 2019. Diagnosis of autism spectrum disorder based on complex network features. *Computer methods and programs in biomedicine*, 177, pp.277-283.
19. Mazinani, S.M. and BAJESTANI, G.S., 2019. PSG DYNAMIC CHANGES IN METHAMPHETAMINE ABUSE USING RECURRENCE QUANTIFICATION ANALYSIS. *IJUM Engineering Journal*, 20(1), pp.79-89.
20. Sadeghi Bajestani, G., An Investigation of Effects of Quran Recitation Sound on Human Heart, Brain Signals. *Interdisciplinary Quranic Studies*, 1(20), p.0.
21. Sadeghi Bajestani, G., Monzavi, A., Hashemi Golpayegani, S.M.R. and Ashrafzadeh, F., 2017. Detection of EEG dynamic pattern variations based on stretching-folding space transportation (SFST) in autism spectrum disorder. *Iranian Journal of Biomedical Engineering*, 11(2), pp.167-185.
22. Bajestani, G.S., Sheikhani, A., Golpayegani, M.R.H., Ashrafzadeh, F. and Hebrani, P., 2016. A Hierarchical model for autism spectrum disorder (HMASD). *Razavi International Journal of Medicine*, 4(3).

Technical Skills

- Cybernetic

- Chaos
- Bios
- Neurodevelopmental Disorder
- Autism
- EEG

Software skills

- C++, Python, MATLAB, LATEX