



Peyvand Ghaderyan

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Papers in Journals

- 1. Peyvand Ghaderyan ,& Seyede Marziyeh Ghoreshi Beyrami,Neurodegenerative diseases detection using distance metrics and sparse coding: A new perspective on gait symmetric features,Computers in Biology and Medicine,2020.
- 2. Peyvand Ghaderyan , Farima Moghaddam , Shiva Khoshnoud , Mousa Shamsi,New interdependence feature of EEG signals as a biomarker of timing deficits evaluated in Attention-Deficit/Hyperactivity Disorder detection,Measurement,2022.
- 3. Aslan Modir, Sina Shamekhi, Peyvand Ghaderyan, A systematic review and methodological analysis of EEG-based biomarkers of Alzheimer's disease, Measurement, 2023.
- **4.** Yasamin Ezazi ,& Peyvand Ghaderyan, Textural feature of EEG signals as a new biomarker of reward processing in Parkinson's disease detection, Biocybernetics and Biomedical Engineering, 2023.
- 5. Masume Saljuqi ,& Peyvand Ghaderyan, Combining homomorphic filtering and recurrent neural network in gait signal analysis for neurodegenerative diseases detection, Biocybernetics and Biomedical Engineering, 2023.
- 6. Rezvan Mirzaeian ,& Peyvand Ghaderyan, Gray-level co-occurrence matrix of Smooth Pseudo Wigner-Ville distribution for cognitive workload estimation, Biocybernetics and Biomedical Engineering, 2023.
- 7. Elham Dehghanpur Deharab ,& Peyvand Ghaderyan, Graphical representation and variability quantification of handwriting signals: New tools for Parkinson's disease detection, Biocybernetics and Biomedical Engineering, 2022.
- 8. Masume Saljuqi ,& Peyvand Ghaderyan,A novel method based on matching pursuit decomposition of gait signals for Parkinson's disease, Amyotrophic lateral sclerosis and Huntington's disease detection, Neuroscience Letters, 2021.
- 9. Peyvand Ghaderyan ,& Ataollah Abbasi,Sparse coding classification and cepstral singular value for cognitive workload estimation,Computers and Electrical Engineering,2021.
- **10.** Peyvand Ghaderyan ,& Gisoo Fathi,Inter-limb time-varying singular value: A new gait feature for Parkinson's disease detection and stage classification,Measurement,2021.
- 11. Seyede Marziyeh Ghoreshi Beyrami ,& Peyvand Ghaderyan,A robust, cost-effective and non-invasive computer-aided method for diagnosis three types of neurodegenerative diseases with gait signal analysis,Measurement,2020.
- 12. Peyvand Ghaderyan, & Ataollah Abbasi, A novel cepstral-based technique for automatic cognitive load estimation, Biomedical Signal Processing and Control, 2018.
- 13. Peyvand Ghaderyan, Ataollah Abbasi, Afshin Ebrahimi, Time-varying singular value decomposition analysis of electrodermal activity: A novel method of cognitive load estimation, Measurement, 2018.
- 14. Peyvand Ghaderyan, Ataollah Abbasi, Sajad Saber, A new algorithm for kinematic analysis of

handwriting data; towards a reliable handwriting-based tool for early detection of alzheimer's disease, Expert systems with applications, 2018.

- 15. Peyvand Ghaderyan ,& Ataollah Abbasi, Dynamic Hilbert warping, a new measure of RR-interval signals evaluated in the cognitive load estimation, Medical Engineering and Physics, 2017.
- **16.** Peyvand Ghaderyan ,& Ataollah Abbasi,An efficient automatic workload estimation method based on electrodermal activity using pattern classifier combinations,International Journal of Psychophysiology,2016.
- 17. Peyvand Ghaderyan, Ataollah Abbasi, Mohammad Hossein Sedaaghi,An efficient seizure prediction method using KNN-based undersampling and linear frequency measures, Journal of Neuroscience Methods, 2014.

Thesis

- 1. neurodegenerative diseases detection using inter-limb deviations of gait signals
- 2. The impact of handwriting tasks for the computer-aided diagnosis of Alzheimer's disease and Parkinson's disease
- 3. The analysis of the relationships between brain areas during a time perception tasks for the diagnosis of Attention Deficit Hyperactivity
- **4.** Parkinson's disease detection using gait pattern recognition and decomposition of vertical ground reaction force signals.
- 5. Time-frequency gait analysis for the detection of Neurodegenerative diseases
- 6. An investigation of electroencephalogram similarity feature during a flanker task for the diagnosis of obsessive compulsive disorder
- 7. parkinson's disease detection using electroencephalogram analysis in a reinforcement-learning task
- 8. Subjective, performance, and psychophysiological data acquisition and analysis for cognitive workload detection using deep learning
- 9. Cognitive workload estimation using psychophysiological feature fusion technique
- 10. An ECG-based obstructive sleep apnea detection using the combination of time-frequency decomposition techniques