Res. Asst. EKİN CAN ERKUŞ

Personal Information

Email: eerkus@metu.edu.tr
Web: https://avesis.metu.edu.tr/eerkus

International Researcher IDs
ORCID: 0000-0002-2445-5929
Yoksis Researcher ID: 214211

Research Areas

algorithms, bioinformatics, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Biomedical Engineering

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Outlier detection and quasi-periodicity optimization algorithm: Frequency domain based outlier detection (FOD)**
Erkuş E. C., Purutcuoglu V.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.291, no.2, pp.560-574, 2021 (SCI-Expanded)

II. **Detection of abnormalities in heart rate using multiple Fourier transforms**
Erkuş E. C., Purutcuoglu V., Purutcuoglu E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, pp.5237-5242, 2019 (SCI-Expanded)

III. **A comparative stationarity analysis of EEG signals**
RASOULZADEH V., ERKUŞ E. C., YOĞURT T. A., ULUSOY İ., Zergeroglu S. A.
ANNALS OF OPERATIONS RESEARCH, vol.258, no.1, pp.133-157, 2017 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **A new frequency domain and dynamic time warping based feature: WFOD feature**
ERKUŞ E. C., PURUTÇUOĞLU V.
2nd International Conference on Advanced Information Scientific Development: Innovating Scientific Learning for Deep Communication, ICAISD 2021, Jakarta, Indonesia, 5 - 06 August 2021, vol.2714

II. **Comparison of several machine learning classifiers for arousal classification: A preliminary study**
Erkuş E. C., Purutçuoğlu Gazi V., Arı F., Gökçay D.
Medical Technologies Congress (TIPTEKNO 2020), İstanbul, Turkey, 19 - 20 November 2020, pp.161-167

III. **Dynamic time warping (DTW) as a feature in classification of motor task fNIRS data**
Erkuş E. C., Purutçuoğlu Gazi V.
18. Ulusal Sinirbilim Kongresi, Ankara, Turkey, 6 - 09 November 2020, pp.207

IV. **Feature Extraction of Hidden Oscillation in ECG Data via Multiple-FOD Method**
Erkuş E. C., Purutçuoğlu Gazi V.
nternational Conference on Artificial Intelligence and Applied Mathematics in Engineering, Antalya, Turkey, 20 - 22 April 2019, vol.43, pp.47-56

V. **Preliminary Results in Evaluating the Pleasantness of an Interviewing Candidate Based on Psychophysiological Signals**
ARI F., AVENOĞLU B., İLERİ F., ERKUŞ E. C., HACIHABİBOĞLU H.
eNTERFACE`19The15th International Summer Workshop on Multimodal Interfaces, Ankara, Turkey, 8 July - 02 August 2019

VI. **Description of Turkish Construction Sector via İstanbul Turkish Stock Market Data**
PURUTÇUOĞLU GAZİ V., ERKUŞ E. C.
5th International Conferenceon Natural and Engineering Sciences, 27 - 30 August 2019

VII. **Description of Turkish Construction Sector via İstanbul Stock Market Data**
Erkuş E. C., Purutçuoğlu Gazi V.
5th International Conference on Natural and Engineering Sciences, İstanbul, Turkey, 27 - 30 August 2019, pp.18-23

VIII. **Detection of hidden patterns in time series data via multiple-time FOD method**
Erkuş E. C., Purutçuoğlu Gazi V.
30th European Conference on Operational Research (EURO 2019), Dublin, Ireland, 23 - 26 June 2019, pp.76

IX. **Calculation of optimal number of Monte Carlo runs for normally distributed datasets**
Erkuş E. C., Purutçuoğlu Gazi V.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 10 - 12 March 2019, pp.1-5

X. **Detection of Abnormalities in Heart Rate Using Multiple Fourier Transforms**
Erkuş E. C., Purutçuoğlu Gazi V.
5th International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 12 October 2018, pp.1

XI. **Two-stage outlier detection algorithm based on Fourier transform: Real data applications**
Erkuş E. C., Purutçuoğlu Gazi V.
International Conference on Inno- vative Engineering Applications, Sivas, Turkey, 20 September 2018, pp.30-37

XII. **Outlier detection methods for time series datasets**
Erkuş E. C., Purutçuoğlu Gazi V.
4th International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018, pp.69

XIII. **The Interpretation of the Effective Connectivity Maps Obtained by Using Dynamic Bayesian Networks on EEG Data**
ERKUŞ E. C., ULUSOY İ.
20th National Biomedical Engineering Meeting (BIYOMUT), İzmir, Turkey, 3 - 05 November 2016

Metrics

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Citation (WoS): 21
Citation (Scopus): 33
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H-Index (Scopus): 3