Hamed Danandeh Hesar

Assistant Professor

College: Faculty of Biomedical Engineering

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Sahand University of Technology/Faculty of Biomedical engineering	Assistant Professor	Tenure Track	Full Time	5

Papers in Journals

1. Hamed Danandeh Hesar ,& Amin Danandeh Hesar,Adaptive dual augmented extended Kalman filtering of ECG signals,Measurement,2024 08 06.
2. Nabi Mehri Khansari, Hamed Danandeh Hesar, Shahab Zare Hosseinabadi,Orthotropic failure criteria based on machine learning and micro-mechanical matrix adapting coefficient,Mechanics Based Design of Structures and Machines,pp. 1-24,2024 05 22.
3. H. D. Hesar ,& M. Mohebbi,ECG denoising using marginalized particle extended kalman filter with an automatic particle weighting strategy,IEEE journal of biomedical and health informatics,Vol. 21,No. 27333615,pp. 635-644,2016 06 20.
4. Parastoo Sadeghi Nia ,& Hamed Danandeh Hesar,Abnormal Heart Sound Detection using Time-Frequency Analysis and Machine Learning Techniques,Elsevier Biomedical Signal Processing & Control,Vol. 90,pp. 105899,2024 04 01.
5. H. D. Hesar ,& M. Mohebbi,An Adaptive Kalman Filter Bank for ECG Denoising,IEEE journal of biomedical and health informatics,Vol. 25,No. 32224468,pp. 13-21,2020 04 27.
6. H. D. Hesar ,& M. Mohebbi,A Multi Rate Marginalized Particle Extended Kalman Filter for P and T Wave Segmentation in ECG Signals,IEEE journal of biomedical and health informatics,Vol. 23,No. 29994185,pp. 112 - 122,2018 01 22.
7. Hamed Danandeh Hesar ,& Amin Danandeh Hesar,Adaptive augmented cubature Kalman filter/smoother for ECG denoising,Springer Biomedical Engineering Letters,2024 03 08.
8. H. D. Hesar ,& M. Mohebbi,Implementation of a square-root filtering approach in marginalized particle filters for mixed linear/nonlinear state-space models,Wiley The International Journal of Adaptive Control and Signal Processing,Vol. 33,pp. 493-511,2019 01 09.
9. Hamed Danandeh Hesar ,& Amin Danandeh Hesar,ECG enhancement using a modified Bayesian framework and particle swarm optimization,Elsevier Biomedical Signal Processing & Control,Vol. 80,pp.

104280,2023 02 01.
10. Hamed Danandeh Hesar , Hamid Abrishami Moghaddam , Amirhossein Safari , Poopak Eftekhari Yazdi,Multiple sperm tracking in microscopic videos using modified GM-PHD filter,Springer Machine Vision and Applications,Vol. 29,pp. 433-451,2017 12 19.
11. H. D. Hesar ,& M. Mohebbi,Performance Investigation of Marginalized Particle-Extended Kalman Filter under Different Particle Weighting Strategies in the Field of Electrocardiogram Denoising,Journal of Medical Signals & Sensors,Vol. 8,pp. 147-160,2018 06 17.
12. H Danandeh Hesar , S Bigeli , M Ebrahimi Moghaddam,A Bayesian approach based on Kalman filter frameworks for bullet identification,Elsevier Science & Justice,Vol. 59,pp. 390-404,2019 2 26.
13. H Danandeh Hesar , S Bigeli , M Ebrahimi Moghaddam,A correlation based bullet identification method using empirical mode decomposition,Elseveir Forensic Science International,Vol. 278,2017 9 1.