

Radana Kahankova

List of Publications by Year in descending order

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72
papers

951
citations

516710

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72
all docs

72
docs citations

72
times ranked

430
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Recent Advances and Future Developments in Fetal Phonocardiography. IEEE Reviews in Biomedical Engineering, 2023, 16, 653-671.	18.0	7
2	Monitoring and Synchronization of Cardiac and Respiratory Traces in Magnetic Resonance Imaging: A Review. IEEE Reviews in Biomedical Engineering, 2022, 15, 200-221.	18.0	9
3	A Comparison of Alternative Approaches to MR Cardiac Triggering: A Pilot Study at 3 Tesla. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2594-2605.	6.3	2
4	Optimization of adaptive filter control parameters for non-invasive fetal electrocardiogram extraction. PLoS ONE, 2022, 17, e0266807.	2.5	11
5	Fiber-Optic Breathing Mask: An Alternative Solution for MRI Respiratory Triggering. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	2
6	Alternative measurement systems for recording cardiac activity in animals: a pilot study. Animal Biotelemetry, 2022, 10, .	1.9	0
7	Fiber-Optic Cardiorespiratory Monitoring and Triggering in Magnetic Resonance Imaging. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	0
8	Non-Invasive Fetal Electrocardiogram Extraction Based on Novel Hybrid Method for Intrapartum ST Segment Analysis. IEEE Access, 2021, 9, 28608-28631.	4.2	3
9	Advanced Bioelectrical Signal Processing Methods: Past, Present and Future Approachâ€”Part I: Cardiac Signals. Sensors, 2021, 21, 5186.	3.8	25
10	A novel algorithm based on ensemble empirical mode decomposition for non-invasive fetal ECG extraction. PLoS ONE, 2021, 16, e0256154.	2.5	22
11	Advanced Bioelectrical Signal Processing Methods: Past, Present and Future Approachâ€”Part II: Brain Signals. Sensors, 2021, 21, 6343.	3.8	19
12	Advanced Bioelectrical Signal Processing Methods: Past, Present, and Future Approachâ€”Part III: Other Biosignals. Sensors, 2021, 21, 6064.	3.8	23
13	On μ -insensitive simplification of fuzzy rules for fetal distress assessment. Expert Systems With Applications, 2021, 179, 115052.	7.6	2
14	System for adaptive extraction of non-invasive fetal electrocardiogram. Applied Soft Computing Journal, 2021, 113, 107940.	7.2	19
15	Wavelet Transform Decomposition for Fetal Phonocardiogram Extraction from Composite Abdominal Signal. Lecture Notes in Electrical Engineering, 2020, , 125-133.	0.4	1
16	A Review of Signal Processing Techniques for Non-Invasive Fetal Electrocardiography. IEEE Reviews in Biomedical Engineering, 2020, 13, 51-73.	18.0	67
17	PDMS-FBG-Based Fiber Optic System for Traffic Monitoring in Urban Areas. IEEE Access, 2020, 8, 127648-127658.	4.2	3
18	A Novel FBG-Based Triggering System for Cardiac MR Imaging at 3 Tesla: A Pilot Pre-Clinical Study. IEEE Access, 2020, 8, 181205-181223.	4.2	5

#	ARTICLE	IF	CITATIONS
19	Passive Fetal Monitoring by Advanced Signal Processing Methods in Fetal Phonocardiography. IEEE Access, 2020, 8, 221942-221962.	4.2	11
20	Design of a Measuring System for Electricity Quality Monitoring within the SMART Street Lighting Test Polygon: Pilot Study on Adaptive Current Control Strategy for Three-Phase Shunt Active Power Filters. Sensors, 2020, 20, 1718.	3.8	24
21	Hybrid Methods Based on Empirical Mode Decomposition for Non-Invasive Fetal Heart Rate Monitoring. IEEE Access, 2020, 8, 51200-51218.	4.2	21
22	Fetal electrocardiograms, direct and abdominal with reference heartbeat annotations. Scientific Data, 2020, 7, 200.	5.3	40
23	A Comparison Between Novel FPGA-Based Pad Monitoring System Using Ballistocardiography and the Conventional Systems for Synchronization and Gating of CMRI at 3 Tesla: A Pilot Study. IEEE Access, 2020, 8, 4149-4170.	4.2	4
24	Detection of Atrial Fibrillation Episodes in Long-Term Heart Rhythm Signals Using a Support Vector Machine. Sensors, 2020, 20, 765.	3.8	45
25	Recognition of Atrial Fibrillation Episodes in Heart Rate Variability Signals Using a Machine Learning Approach. , 2019, , .		2
26	Novel Hybrid Extraction Systems for Fetal Heart Rate Variability Monitoring Based on Non-Invasive Fetal Electrocardiogram. IEEE Access, 2019, 7, 131758-131784.	4.2	35
27	New Possibilities for Fetal Monitoring Using Unobtrusive Abdominal Electrocardiography. , 2019, , .		2
28	A Low-Cost System for Seismocardiography-Based Cardiac Triggering: A Practical Solution for Cardiovascular Magnetic Resonance Imaging at 3 Tesla. IEEE Access, 2019, 7, 118608-118629.	4.2	12
29	A Comparative Analysis of Fetal Phonocardiograph Acoustical Performance. IFAC-PapersOnLine, 2019, 52, 514-519.	0.9	2
30	Comparison of SCG and ECG Based Cardiac Activity Monitoring in Laboratory Conditions. IFAC-PapersOnLine, 2019, 52, 550-555.	0.9	4
31	Optimization of RLS Algorithm for Hybrid Method ICA-RLS. IFAC-PapersOnLine, 2019, 52, 530-535.	0.9	2
32	Influence of System Configuration on the Quality of Non-Invasive Fetal Electrocardiography Measurement. IFAC-PapersOnLine, 2019, 52, 421-426.	0.9	3
33	A novel modular fetal ECG STAN and HRV analysis: Towards robust hypoxia detection. Technology and Health Care, 2019, 27, 257-287.	1.2	5
34	Acoustic sensor optimization for SMART technologies. , 2019, , .		0
35	Real-time analysis of semiconductor memories under the influence of ionizing radiation. , 2018, , .		0
36	Non-invasive Fetal ECG Extraction from Maternal Abdominal ECG Using LMS and RLS Adaptive Algorithms. Advances in Intelligent Systems and Computing, 2018, , 258-271.	0.6	11

#	ARTICLE	IF	CITATIONS
37	Comparison of Fetal Phonocardiogram Wavelet Denoising Methods. , 2018, , .		2
38	A Noise Suppression Technique for Fetal Phonocardiogram Monitoring Using Adaptive Neuro-Fuzzy Interference System. IFAC-PapersOnLine, 2018, 51, 456-461.	0.9	3
39	A Low-cost Device for Fetal Heart Rate Measurement. IFAC-PapersOnLine, 2018, 51, 426-431.	0.9	11
40	Analysis of the use of fiber-optic sensors in the road traffic. IFAC-PapersOnLine, 2018, 51, 420-425.	0.9	6
41	Least Mean Squares Adaptive Algorithms Optimization for Fetal Phonocardiogram Extraction. IFAC-PapersOnLine, 2018, 51, 60-65.	0.9	4
42	Non-Adaptive Methods for Fetal ECG Signal Processing: A Review and Appraisal. Sensors, 2018, 18, 3648.	3.8	59
43	Comparison of fetal phonocardiography de-noising by wavelet transform and the FIR filter. , 2018, , .		5
44	Adaptive Linear Neuron for Fetal Electrocardiogram Extraction. , 2018, , .		5
45	Use of a FIR filter for fetal phonocardiography processing. , 2018, , .		1
46	Speech Signal Processing using Microphones NI 9234 and LabVIEW. , 2018, , .		2
47	Comparative Effectiveness of ICA and PCA in Extraction of Fetal ECG From Abdominal Signals: Toward Non-invasive Fetal Monitoring. Frontiers in Physiology, 2018, 9, 648.	2.8	86
48	Comparison of the LMS, NLMS, RLS, and QR-RLS algorithms for vehicle noise suppression. , 2018, , .		9
49	Speech Quality Assessment Based on Virtual Instrumentation. , 2018, , .		2
50	Fetal ECG Preprocessing Using Wavelet Transform. , 2018, , .		11
51	Optimization of the Training Symbols for Minimum Mean Square Error Equalizer. Advances in Intelligent Systems and Computing, 2018, , 272-287.	0.6	3
52	Adaptive Signal Processing of Fetal PCG Recorded by Interferometric Sensor. Advances in Intelligent Systems and Computing, 2018, , 235-243.	0.6	6
53	A comparison of probes based on Bragg grating sensor and microphones for heart sounds measurement. , 2018, , .		3
54	Fetal phonocardiography signal processing from abdominal records by non-adaptive methods. , 2018, , .		3

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55	Fiber-optic interferometric sensor for monitoring automobile and rail traffic. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 2987-2996.	1.4	8
56	Fiber-optic Bragg grating sensors signal processing for vital signs monitoring. , 2018, , .		0
57	Advanced methods for fiber-optic sensor signal processing. , 2018, , .		0
58	Pre-processing and extraction techniques for vital signs analysis from phonocardiographic-based interferometric fiber-optic sensor. , 2018, , .		0
59	Fetal ECG extraction from abdominal ECG using RLS based adaptive algorithms. , 2017, , .		20
60	The effect of matched filtering with programmable root raised cosine filter on error vector magnitude of M-QAM broadband over visible light. , 2017, , .		3
61	A Phonocardiographic-Based Fiber-Optic Sensor and Adaptive Filtering System for Noninvasive Continuous Fetal Heart Rate Monitoring. Sensors, 2017, 17, 890.	3.8	75
62	Non-Invasive Fetal Monitoring: A Maternal Surface ECG Electrode Placement-Based Novel Approach for Optimization of Adaptive Filter Control Parameters Using the LMS and RLS Algorithms. Sensors, 2017, 17, 1154.	3.8	86
63	Noninvasive Fetal Heart Rate Monitoring: Validation of Phonocardiography-Based Fiber-Optic Sensing and Adaptive Filtering Using the NLMS Algorithm. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.3	5
64	Non-Adaptive Methods of Fetal ECG Signal Processing. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.3	25
65	Influence of gestation age on the performance of adaptive systems for fetal ECG extraction. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.3	16
66	A Novel Non-Stationary Multipath Fading Channel Model Based on Propagation Measurements Using SDR and FPGA. Journal of Communications, 2017, , 683-688.	1.6	0
67	Adaptive signal processing techniques for extracting abdominal fetal electrocardiogram. , 2016, , .		16
68	Fetal ECG extraction based on adaptive neuro-fuzzy interference system. , 2016, , .		11
69	Fiber-optic Bragg Sensors for the Rail Applications. International Journal of Mechanical Engineering and Robotics Research, 2016, 7, 292-295.	1.0	6
70	Design of a synthetic ECG signal based on the Fourier series. , 2014, , .		12
71	Simulator of Foetal Phonocardiographic Recordings and Foetal Heart Rate Calculator. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 39, 57-64.	0.5	4
72	Non-Invasive Fetal Monitoring: Extraction of Clinical Information of Fetal ECG from Abdominal Signals. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0