

Janusz Wrobel

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

831
citations

516710

16
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526287

27
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61
all docs

61
docs citations

61
times ranked

558
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction of True Fetal Heart Rate Signals Obtained via Ultrasound Bedside Monitor in Relation to Fetal Electrocardiography. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 351-360.	0.6	0
2	Coping with limitations of fetal monitoring instrumentation to improve heart rhythm variability assessment. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 388-403.	5.9	4
3	New Method for Beat-to-Beat Fetal Heart Rate Measurement Using Doppler Ultrasound Signal. <i>Sensors</i> , 2020, 20, 4079.	3.8	5
4	Fetal electrocardiograms, direct and abdominal with reference heartbeat annotations. <i>Scientific Data</i> , 2020, 7, 200.	5.3	40
5	Detection of Atrial Fibrillation Episodes in Long-Term Heart Rhythm Signals Using a Support Vector Machine. <i>Sensors</i> , 2020, 20, 765.	3.8	45
6	Recognition of Atrial Fibrillation Episodes in Heart Rate Variability Signals Using a Machine Learning Approach. , 2019, , .		2
7	New Possibilities for Fetal Monitoring Using Unobtrusive Abdominal Electrocardiography. , 2019, , .		2
8	Improving the Automated Detection of Silent AF Episodes Based on HR Variability Measures. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 131-140.	0.6	0
9	Optimizing the Automated Detection of Atrial Fibrillation Episodes in Long-term Recording Instrumentation. , 2018, , .		3
10	Control and signal processing software embedded in smart wristband monitor of silent atrial fibrillation. , 2017, , .		4
11	Atrial fibrillation episodes detection based on classification of heart rate derived features. , 2017, , .		18
12	OWA aggregation operator in robust filtering. , 2017, , .		3
13	Is Abdominal Fetal Electrocardiography an Alternative to Doppler Ultrasound for FHR Variability Evaluation?. <i>Frontiers in Physiology</i> , 2017, 8, 305.	2.8	40
14	Hardware design issues and functional requirements for smart wristband monitor of silent atrial fibrillation. , 2017, , .		3
15	Early predicting a risk of preterm labour by analysis of antepartum electrohysterographic signals. <i>Biocybernetics and Biomedical Engineering</i> , 2016, 36, 574-583.	5.9	35
16	Detection of aorta anatomical structures characterized by various levels of pixel intensity. , 2016, , .		1
17	Evaluating the fetal heart rate baseline estimation algorithms by their influence on detection of clinically important patterns. <i>Biocybernetics and Biomedical Engineering</i> , 2016, 36, 562-573.	5.9	34
18	Design and interfacing aspects of the medical instrumentation for modern hospital system for pregnancy and labour monitoring. , 2016, , .		3

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19	New filtering approach for improving quality of the ECG signal recorded during a non-invasive electrical heart stimulation. , 2016, , .		0
20	Sequential separation of twin pregnancy electrocardiograms. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2016, 64, 91-101.	0.8	4
21	Selected design issues of the medical cyber-physical system for telemonitoring pregnancy at home. Microprocessors and Microsystems, 2016, 46, 35-43.	2.8	34
22	Automated detection of uterine contractions in tocography signals – Comparison of algorithms. Biocybernetics and Biomedical Engineering, 2016, 36, 610-618.	5.9	13
23	Towards a medical cyber-physical system for home telecare of high-risk pregnancy. IFAC-PapersOnLine, 2015, 48, 466-473.	0.9	7
24	Medical Cyber-Physical System for Home Telecare of High-Risk Pregnancy: Design Challenges and Requirements. Journal of Medical Imaging and Health Informatics, 2015, 5, 1295-1301.	0.3	26
25	Evaluation of the Robustness of Fetal Heart Rate Variability Measures to Low Signal Quality. Journal of Medical Imaging and Health Informatics, 2015, 5, 1311-1318.	0.3	21
26	Efficient Evaluation of Fetal Wellbeing During Pregnancy Using Methods Based on Statistical Learning Principles. Journal of Medical Imaging and Health Informatics, 2015, 5, 1327-1336.	0.3	7
27	Analysis of Uterine Contractile Wave Propagation in Electrohysterogram for Assessing the Risk of Preterm Birth. Journal of Medical Imaging and Health Informatics, 2015, 5, 1287-1294.	0.3	14
28	Pregnancy Telemonitoring with Smart Control of Algorithms for Signal Analysis. Journal of Medical Imaging and Health Informatics, 2015, 5, 1302-1310.	0.3	21
29	Recognition of Fetal Movements – Automated Detection from Doppler Ultrasound Signals Compared to Maternal Perception. Journal of Medical Imaging and Health Informatics, 2015, 5, 1319-1326.	0.3	4
30	Telemonitoring of pregnant women at home — Biosignals acquisition and measurement. , 2015, , .		5
31	XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013. IFMBE Proceedings, 2014, , .	0.3	11
32	Quality Based Adaptation of Signal Analysis Software in Pregnancy Home Care System. IFMBE Proceedings, 2014, , 559-562.	0.3	1
33	Fuzzy System for Retrospective Evaluation of the Fetal State. IFMBE Proceedings, 2014, , 754-757.	0.3	0
34	Improving fetal heart rate signal interpretation by application of myriad filtering. Biocybernetics and Biomedical Engineering, 2013, 33, 211-221.	5.9	40
35	Application of fuzzy inference systems for classification of fetal heart rate tracings in relation to neonatal outcome. Ginekologia Polska, 2013, 84, 38-43.	0.7	8
36	Analysis of FHR Variability Extracted from Mechanical and Electrical Fetal Heart Activity Signals. IFMBE Proceedings, 2013, , 1074-1077.	0.3	0

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37	Robust extraction of fuzzy rules with artificial neural network based on fuzzy inference system. International Journal of Intelligent Information and Database Systems, 2012, 6, 77.	0.3	3
38	A new method of saccadic eye movement detection for optokinetic nystagmus analysis. , 2012, 2012, 3464-7.		10
39	Two-Step Analysis of the Fetal Heart Rate Signal as a Predictor of Distress. Lecture Notes in Computer Science, 2012, , 431-438.	1.3	2
40	A novel technique for fetal heart rate estimation from Doppler ultrasound signal. BioMedical Engineering OnLine, 2011, 10, 92.	2.7	62
41	Wireless Fetal Monitoring at Home with On-Line Signal Analysis. IFMBE Proceedings, 2011, , 906-909.	0.3	0
42	Predicting the Risk of Low-Fetal Birth Weight From Cardiotocographic Signals Using ANBLIR System With Deterministic Annealing and ϵ -Insensitive Learning. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1062-1074.	3.2	38
43	Robust Prediction with ANNBFS System. Lecture Notes in Computer Science, 2010, , 185-194.	1.3	1
44	Ensuring the Real Time Signal Transmission Using GSM/Internet Technology for Remote Fetal Monitoring. Advances in Soft Computing, 2008, , 291-298.	0.4	2
45	Coping with Limitation of Bedside Measurement Instrumentation for Reliable Assessment of Fetal Heart Rate Variability. Advances in Soft Computing, 2008, , 307-314.	0.4	2
46	Prediction of Newborn Sex with Neural Networks Approach to Fetal Cardiotocograms Classification. Advances in Soft Computing, 2008, , 299-306.	0.4	0
47	Some Practical Remarks on Neural Networks Approach to Fetal Cardiotocograms Classification. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5170-3.	0.5	19
48	The Prediction of Fetal Outcome by Applying Neural Network for Evaluation of CTG Records. Advances in Intelligent and Soft Computing, 2007, , 532-541.	0.2	9
49	Automated Classification of Deceleration Patterns in Fetal Heart Rate Signal using Neural Networks. IFMBE Proceedings, 2007, , 5-8.	0.3	1
50	Centralised fetal monitoring system with hardware-based data flow control. , 2006, , 18.		19
51	Simultaneous monitoring of mechanical and electrical properties of pregnant uterus. , 2006, , 10.		1
52	The influence of coincidence of fetal and maternal QRS complexes on fetal heart rate reliability. Medical and Biological Engineering and Computing, 2006, 44, 393-403.	2.8	42
53	Comparison of Doppler ultrasound and direct electrocardiography acquisition techniques for quantification of fetal heart rate variability. IEEE Transactions on Biomedical Engineering, 2006, 53, 855-864.	4.2	70
54	Quantitative analysis of contraction patterns in electrical activity signal of pregnant uterus as an alternative to mechanical approach. Physiological Measurement, 2005, 26, 753-767.	2.1	81

#	ARTICLE	IF	CITATIONS
55	Instrumentation for Fetal Cardiac Performance Analysis During the Antepartum Period. , 2005, 2005, 6675-8.		4
56	Data Management System for Computer Aided Biophysical Monitoring. , 2005, 2005, 4712-5.		1
57	Baseline and Acceleration Episodes - Clinically Significant Nonstationarities in FHR Signal: Part I. Coefficients of Inconsistency. Advances in Soft Computing, 2005, , 527-534.	0.4	1
58	Analysis of nonstationarities in fetal heart rate signal: inconsistency measures of baselines using acceleration/deceleration patterns. , 2003, , .		5
59	Fast prototyping of an interface between new bedside device and computerized fetal monitoring system. , 0, , .		0