

# Janusz Jezewski

## List of Publications by Year in descending order

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86  
papers

1,493  
citations

304743

22  
h-index

345221

36  
g-index

94  
all docs

94  
docs citations

94  
times ranked

730  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Invasive Fetal Electrocardiogram Extraction Based on Novel Hybrid Method for Intrapartum ST Segment Analysis. IEEE Access, 2021, 9, 28608-28631.	4.2	3
2	A novel algorithm based on ensemble empirical mode decomposition for non-invasive fetal ECG extraction. PLoS ONE, 2021, 16, e0256154.	2.5	22
3	Fuzzy Ordered $\rho$ -Means Clustering and Least Angle Regression for Fuzzy Rule-Based Classifier: Study for Imbalanced Data. IEEE Transactions on Fuzzy Systems, 2020, 28, 2799-2813.	9.8	15
4	Coping with limitations of fetal monitoring instrumentation to improve heart rhythm variability assessment. Biocybernetics and Biomedical Engineering, 2020, 40, 388-403.	5.9	4
5	New Method for Beat-to-Beat Fetal Heart Rate Measurement Using Doppler Ultrasound Signal. Sensors, 2020, 20, 4079.	3.8	5
6	Fetal electrocardiograms, direct and abdominal with reference heartbeat annotations. Scientific Data, 2020, 7, 200.	5.3	40
7	Detection of Atrial Fibrillation Episodes in Long-Term Heart Rhythm Signals Using a Support Vector Machine. Sensors, 2020, 20, 765.	3.8	45
8	New Possibilities for Fetal Monitoring Using Unobtrusive Abdominal Electrocardiography. , 2019, , .		2
9	Fuzzy classifier based on clustering with pairs of $\hat{\mu}$ -hyperballs and its application to support fetal state assessment. Expert Systems With Applications, 2019, 118, 109-126.	7.6	13
10	Improving the Automated Detection of Silent AF Episodes Based on HR Variability Measures. Advances in Intelligent Systems and Computing, 2019, , 131-140.	0.6	0
11	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
12	Is Abdominal Fetal Electrocardiography an Alternative to Doppler Ultrasound for FHR Variability Evaluation?. Frontiers in Physiology, 2017, 8, 305.	2.8	40
13	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
14	Non-Adaptive Methods of Fetal ECG Signal Processing. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.3	25
15	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
16	Electrical Activity of Uterus as Reliable Information on Contractions During Pregnancy and Labour. Advances in Intelligent Systems and Computing, 2016, , 353-366.	0.6	3
17	Early predicting a risk of preterm labour by analysis of antepartum electrohysterographic signals. Biocybernetics and Biomedical Engineering, 2016, 36, 574-583.	5.9	35
18	Fuzzy Analysis of Delivery Outcome Attributes for Improving the Automated Fetal State Assessment. Applied Artificial Intelligence, 2016, 30, 556-571.	3.2	17

#	ARTICLE	IF	CITATIONS
19	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
20	Design and interfacing aspects of the medical instrumentation for modern hospital system for pregnancy and labour monitoring. , 2016, , .		3
21	Selected design issues of the medical cyber-physical system for telemonitoring pregnancy at home. <i>Microprocessors and Microsystems</i> , 2016, 46, 35-43.	2.8	34
22	Automated detection of uterine contractions in tocography signals – Comparison of algorithms. <i>Biocybernetics and Biomedical Engineering</i> , 2016, 36, 610-618.	5.9	13
23	A New Personal Verification Technique Using Finger-Knuckle Imaging. <i>Lecture Notes in Computer Science</i> , 2016, , 515-524.	1.3	4
24	Towards a medical cyber-physical system for home telecare of high-risk pregnancy. <i>IFAC-PapersOnLine</i> , 2015, 48, 466-473.	0.9	7
25	Medical Cyber-Physical System for Home Telecare of High-Risk Pregnancy: Design Challenges and Requirements. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1295-1301.	0.3	26
26	A Special Section on Medical Informatics and Technologies Conference MIT'2014. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1278-1280.	0.3	0
27	Evaluation of the Robustness of Fetal Heart Rate Variability Measures to Low Signal Quality. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1311-1318.	0.3	21
28	Efficient Evaluation of Fetal Wellbeing During Pregnancy Using Methods Based on Statistical Learning Principles. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1327-1336.	0.3	7
29	Analysis of Uterine Contractile Wave Propagation in Electrohysterogram for Assessing the Risk of Preterm Birth. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1287-1294.	0.3	14
30	Pregnancy Telemonitoring with Smart Control of Algorithms for Signal Analysis. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1302-1310.	0.3	21
31	Recognition of Fetal Movements – Automated Detection from Doppler Ultrasound Signals Compared to Maternal Perception. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1319-1326.	0.3	4
32	Telemonitoring of pregnant women at home &#x2014; Biosignals acquisition and measurement. , 2015, , .		5
33	Quality Based Adaptation of Signal Analysis Software in Pregnancy Home Care System. <i>IFMBE Proceedings</i> , 2014, , 559-562.	0.3	1
34	Fuzzy System for Retrospective Evaluation of the Fetal State. <i>IFMBE Proceedings</i> , 2014, , 754-757.	0.3	0
35	Fetal state assessment using fuzzy analysis of fetal heart rate signals – Agreement with the neonatal outcome. <i>Biocybernetics and Biomedical Engineering</i> , 2013, 33, 145-155.	5.9	32
36	Improving fetal heart rate signal interpretation by application of myriad filtering. <i>Biocybernetics and Biomedical Engineering</i> , 2013, 33, 211-221.	5.9	40

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37	Classification of Uterine Electrical Activity Patterns for Early Detection of Preterm Birth. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 559-568.	0.6	1
38	Application of fuzzy inference systems for classification of fetal heart rate tracings in relation to neonatal outcome. <i>Ginekologia Polska</i> , 2013, 84, 38-43.	0.7	8
39	Analysis of FHR Variability Extracted from Mechanical and Electrical Fetal Heart Activity Signals. <i>IFMBE Proceedings</i> , 2013, , 1074-1077.	0.3	0
40	Determination of fetal heart rate from abdominal signals: evaluation of beat-to-beat accuracy in relation to the direct fetal electrocardiogram. <i>Biomedizinische Technik</i> , 2012, 57, 383-94.	0.8	118
41	Robust extraction of fuzzy rules with artificial neural network based on fuzzy inference system. <i>International Journal of Intelligent Information and Database Systems</i> , 2012, 6, 77.	0.3	3
42	Computerized analysis of fetal heart rate signals as the predictor of neonatal acidemia. <i>Expert Systems With Applications</i> , 2012, 39, 11846-11860.	7.6	50
43	A new method of saccadic eye movement detection for optokinetic nystagmus analysis. , 2012, 2012, 3464-7.		10
44	Two-Step Analysis of the Fetal Heart Rate Signal as a Predictor of Distress. <i>Lecture Notes in Computer Science</i> , 2012, , 431-438.	1.3	2
45	Application of spatio-temporal filtering to fetal electrocardiogram enhancement. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, 1-9.	4.7	42
46	A novel technique for fetal heart rate estimation from Doppler ultrasound signal. <i>BioMedical Engineering OnLine</i> , 2011, 10, 92.	2.7	62
47	Improvement in Fetal Heart Periodicity Measurement Using Doppler Ultrasound Signal. <i>IFMBE Proceedings</i> , 2011, , 133-136.	0.3	0
48	Granular Representation of Temporal Signals Using Differential Quadratures. <i>Lecture Notes in Computer Science</i> , 2011, , 72-79.	1.3	0
49	Predicting the Risk of Low-Fetal Birth Weight From Cardiotocographic Signals Using ANBLIR System With Deterministic Annealing and $\epsilon$ -Insensitive Learning. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 1062-1074.	3.2	38
50	Towards noise immune detection of fetal QRS complexes. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 97, 241-256.	4.7	45
51	Robust Prediction with ANNBFS System. <i>Lecture Notes in Computer Science</i> , 2010, , 185-194.	1.3	1
52	On a Hybrid Fuzzy Clustering Method. <i>Advances in Intelligent and Soft Computing</i> , 2010, , 3-14.	0.2	0
53	The Adaptive Fuzzy Meridian and Its Application to Fuzzy Clustering. <i>Advances in Intelligent and Soft Computing</i> , 2009, , 247-255.	0.2	1
54	Detection of low amplitude fetal QRS complexes. , 2008, 2008, 4764-7.		5

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55	Extraction of Fetal Heart-Rate Signal as the Time Event Series From Evenly Sampled Data Acquired Using Doppler Ultrasound Technique. IEEE Transactions on Biomedical Engineering, 2008, 55, 805-810.	4.2	30
56	Ensuring the Real Time Signal Transmission Using GSM/Internet Technology for Remote Fetal Monitoring. Advances in Soft Computing, 2008, , 291-298.	0.4	2
57	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
58	Prediction of Newborn Sex with Neural Networks Approach to Fetal Cardiotocograms Classification. Advances in Soft Computing, 2008, , 299-306.	0.4	0
59	New Approach to Quantitative Description of Deceleration of Fetal Heart Rate for the Patterns Classification. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3156-9.	0.5	2
60	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
61	Automated Classification of Deceleration Patterns in Fetal Heart Rate Signal using Neural Networks. IFMBE Proceedings, 2007, , 5-8.	0.3	1
62	Centralised fetal monitoring system with hardware-based data flow control. , 2006, , 18.		19
63	Simultaneous monitoring of mechanical and electrical properties of pregnant uterus. , 2006, , 10.		1
64	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
65	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
66	Evaluation of Fetal Heart Rate Baseline Estimation Method Using Testing Signals Based on a Statistical Model. , 2006, 2006, 3728-31.		9
67	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
68	Instrumentation for Fetal Cardiac Performance Analysis During the Antepartum Period. , 2005, 2005, 6675-8.		4
69	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
70	Baseline and Acceleration Episodes - Clinically Significant Nonstationarities in FHR Signal: Part II. Indirect Comparison. Advances in Soft Computing, 2005, , 535-542.	0.4	0
71	Timing events in Doppler ultrasound signal of fetal heart activity. , 2004, 2006, 337-40.		22
72	Declarative algebra and continuous query language for biomedical stream processing in fetal monitoring system. , 2004, 2004, 3175-8.		1

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73	Analysis of nonstationarities in fetal heart rate signal: inconsistency measures of baselines using acceleration/deceleration patterns. , 2003, , .		5
74	Fetal monitoring with automated analysis of cardiotocogram: the Kompor system. , 0, , .		11
75	Interfacing fetal monitors in computerized cardiotocography system. , 0, , .		2
76	Abdominal electrohysterogram data acquisition problems and their source of origin. , 0, , .		4
77	Coping with limitations of Doppler ultrasound fetal heart rate monitors. , 0, , .		2
78	Ergonomic visualization of cardiotocographic data in computerized fetal monitoring system. , 0, , .		0
79	Two-dimensional model for understanding the nature of abdominal surface potentials in late gestation. , 0, , .		0
80	Reliable data communication in modular fetal monitoring system. , 0, , .		0
81	Statistical approach to analysis of electrohysterographic signal. , 0, , .		2
82	Algorithm for detection of uterine contractions from electrohysterogram. , 0, , .		18
83	Virtual instrumentation in medical investigations and diagnosis support. , 0, , .		3
84	Fetal heart rate variability: clinical experts versus computerized system interpretation. , 0, , .		11
85	Fast prototyping of an interface between new bedside device and computerized fetal monitoring system. , 0, , .		0
86	A new approach to cardiotocographic fetal monitoring based on analysis of bioelectrical signals. , 0, , .		6