

Adam Gacek

List of Publications by Year in descending order

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48
papers

596
citations

759055

12
h-index

677027

22
g-index

53
all docs

53
docs citations

53
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal granulation and its application to signal analysis. Information Sciences, 2002, 143, 47-71.	4.0	58
2	Clustering Granular Data and Their Characterization With Information Granules of Higher Type. IEEE Transactions on Fuzzy Systems, 2015, 23, 850-860.	6.5	50
3	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.	1.6	42
4	From numeric data to information granules: A design through clustering and the principle of justifiable granularity. Knowledge-Based Systems, 2016, 101, 100-113.	4.0	41
5	Granular modelling of signals: A framework of Granular Computing. Information Sciences, 2013, 221, 1-11.	4.0	37
6	LEARNING OF FUZZY AUTOMATA. International Journal of Computational Intelligence and Applications, 2001, 01, 19-33.	0.6	28
7	A Granular Description of ECG Signals. IEEE Transactions on Biomedical Engineering, 2006, 53, 1972-1982.	2.5	28
8	Development of information granules of higher type and their applications to granular models of time series. Engineering Applications of Artificial Intelligence, 2018, 71, 60-72.	4.3	28
9	The Maternal ECG Suppression Algorithm for Efficient Extraction of the Fetal ECG from Abdominal Signal. , 2006, 2006, 3106-9.		26
10	A genetic segmentation of ECG signals. IEEE Transactions on Biomedical Engineering, 2003, 50, 1203-1208.	2.5	23
11	Hyperplane Division in Fuzzy C-Means: Clustering Big Data. IEEE Transactions on Fuzzy Systems, 2020, 28, 3032-3046.	6.5	20
12	Signal processing and time series description: A Perspective of Computational Intelligence and Granular Computing. Applied Soft Computing Journal, 2015, 27, 590-601.	4.1	16
13	Identification of Fuzzy Rule-Based Models With Collaborative Fuzzy Clustering. IEEE Transactions on Cybernetics, 2022, 52, 6406-6419.	6.2	14
14	Results of Experiments with Fiber Pressure Sensor Applied in the Polish Artificial Heart Prosthesis. Acta Physica Polonica A, 2010, 118, 1183-1185.	0.2	12
15	Fetal heart rate variability: clinical experts versus computerized system interpretation. , 0, , .		11
16	Preprocessing and analysis of ECG signals – A self-organizing maps approach. Expert Systems With Applications, 2011, 38, 9008-9013.	4.4	11
17	Design of Interval Type-2 Information Granules Based on the Principle of Justifiable Granularity. IEEE Transactions on Fuzzy Systems, 2021, 29, 3456-3469.	6.5	11
18	Noninvasive Bioimpedance Methods From the Viewpoint of Remote Monitoring in Heart Failure. JMIR MHealth and UHealth, 2021, 9, e25937.	1.8	11

#	ARTICLE	IF	CITATIONS
19	Noninvasive acoustic blood volume measurement system for the POLVAD prosthesis. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2011, 59, 429-433.	0.8	10
20	Granular Aggregation of Fuzzy Rule-Based Models in Distributed Data Environment. IEEE Transactions on Fuzzy Systems, 2021, 29, 1297-1310.	6.5	10
21	Computationally Effective Algorithm for Robust Weighted Averaging. IEEE Transactions on Biomedical Engineering, 2004, 51, 1280-1284.	2.5	9
22	Evaluation of Fetal Heart Rate Baseline Estimation Method Using Testing Signals Based on a Statistical Model. , 2006, 2006, 3728-31.		9
23	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
24	An Introduction to ECG Signal Processing and Analysis. , 2012, , 21-46.		8
25	ECG Signal Analysis, Classification, and Interpretation: A Framework of Computational Intelligence. , 2012, , 47-77.		8
26	A characterization of electrocardiogram signals through optimal allocation of information granularity. Artificial Intelligence in Medicine, 2012, 54, 125-134.	3.8	7
27	Description, analysis, and classification of biomedical signals: a computational intelligence approach. Soft Computing, 2013, 17, 1659-1671.	2.1	7
28	Clustering in augmented space of granular constraints: A study in knowledge-based clustering. Pattern Recognition Letters, 2015, 67, 122-129.	2.6	6
29	A two-phase method of forming a granular representation of signals. Signal Processing, 2017, 141, 1-15.	2.1	6
30	<scp>RE</scp>mote <scp>SU</scp>pervision to Decrease Hospitalization RaTe. Unified and integrated platform for data collected from devices manufactured by different companies: Design and rationale of the <scp>RESULT</scp> study. Annals of Noninvasive Electrocardiology, 2017, 22, .	0.5	6
31	Information granulation for concept formation. , 2000, , .		5
32	Aggregation of Order-2 Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2021, 29, 3570-3575.	6.5	5
33	Identification of Fuzzy Rule-Based Models With Output Space Knowledge Guidance. IEEE Transactions on Fuzzy Systems, 2021, 29, 3504-3518.	6.5	4
34	A Hierarchical Approach to Interpretability of TS Rule-Based Models. IEEE Transactions on Fuzzy Systems, 2022, 30, 2861-2869.	6.5	4
35	Virtual instrumentation in medical investigations and diagnosis support. , 0, , .		3
36	Data structure-guided development of electrocardiographic signal characterization and classification. Artificial Intelligence in Medicine, 2013, 59, 197-204.	3.8	3

#	ARTICLE	IF	CITATIONS
37	Assessment of the brain ischemia during orthostatic stress and lower body negative pressure in air force pilots by near-infrared spectroscopy. Biomedical Optics Express, 2020, 11, 1043.	1.5	3
38	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
39	From clustering to granular clustering: A granular representation of data in pattern recognition and system modeling. , 2013, , .		2
40	Information granulation and signal quantization. Kybernetes, 2001, 30, 179-192.	1.2	1
41	Guest Editorial Special Issue on Communications Technologies and Infrastructures for Smart e-Health Systems. IEEE Systems Journal, 2018, 12, 16-19.	2.9	1
42	LOGIC CHARACTERIZATION AND CLASSIFICATION OF ECG SIGNALS. , 2005, , 183-206.		1
43	Two-dimensional model for understanding the nature of abdominal surface potentials in late gestation. , 0, , .		0
44	New filtering approach for improving quality of the ECG signal recorded during a non-invasive electrical heart stimulation. , 2016, , .		0
45	Monitoring changes of pulse wave velocity PWV in medical telemonitoring system based on a synchronized, dispersed sensor network SWBAN. , 2016, , .		0
46	Clustering of Information Granules in Hotspot Identification. , 2019, , .		0
47	2017 Monitoring and Teletransmission of Medical-Data in Heart Failure. First Report. Advances in Intelligent Systems and Computing, 2018, , 117-124.	0.5	0
48	TELEMONITORING OF BIOMEDICAL PARAMETERS - TECHNOLOGICAL ASPECTS AND APPLICATIONS. The Polish Journal of Aviation Medicine Bioengineering and Psychology, 2021, 25, 40-49.	0.0	0