

Ryszard Tadeusiewicz

List of Publications by Year in descending order

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Version: 2024-02-01

132
papers

1,614
citations

279487

23
h-index

360668

35
g-index

145
all docs

145
docs citations

145
times ranked

1266
citing authors

#	ARTICLE	IF	CITATIONS
1	Knowledge discovery approach to automated cardiac SPECT diagnosis. <i>Artificial Intelligence in Medicine</i> , 2001, 23, 149-169.	3.8	209
2	Fault diagnosis of angle grinders and electric impact drills using acoustic signals. <i>Applied Acoustics</i> , 2021, 179, 108070.	1.7	123
3	Image languages in intelligent radiological palm diagnostics. <i>Pattern Recognition</i> , 2006, 39, 2157-2165.	5.1	50
4	Neural Networks In Mining Sciences – General Overview And Some Representative Examples. <i>Archives of Mining Sciences</i> , 2015, 60, 971-984.	0.6	40
5	Application of artificial neural networks and DFT-based parameters for prediction of reaction kinetics of ethylbenzene dehydrogenase. <i>Journal of Computer-Aided Molecular Design</i> , 2006, 20, 145-157.	1.3	37
6	Neural networks as a tool for modeling of biological systems. <i>Bio-Algorithms and Med-Systems</i> , 2015, 11, 135-144.	1.0	36
7	Neural network adaptation process effectiveness dependent of constant training data availability. <i>Neurocomputing</i> , 2009, 72, 3138-3149.	3.5	35
8	Approximation of phenol concentration using novel hybrid computational intelligence methods. <i>International Journal of Applied Mathematics and Computer Science</i> , 2014, 24, 165-181.	1.5	33
9	Artificial neural network modelling of the results of tympanoplasty in chronic suppurative otitis media patients. <i>Computers in Biology and Medicine</i> , 2013, 43, 16-22.	3.9	32
10	Acoustic analysis assessment in speech pathology detection. <i>International Journal of Applied Mathematics and Computer Science</i> , 2015, 25, 631-643.	1.5	32
11	Self-Optimizing Neural Networks. <i>Lecture Notes in Computer Science</i> , 2004, , 150-155.	1.0	31
12	Neural networks: A comprehensive foundation. <i>Control Engineering Practice</i> , 1995, 3, 746-747.	3.2	30
13	Syntactic reasoning and pattern recognition for analysis of coronary artery images. <i>Artificial Intelligence in Medicine</i> , 2002, 26, 145-159.	3.8	28
14	Texture analysis in perfusion images of prostate cancer – A case study. <i>International Journal of Applied Mathematics and Computer Science</i> , 2010, 20, 149-156.	1.5	28
15	Artificial intelligence structural imaging techniques in visual pattern analysis and medical data understanding. <i>Pattern Recognition</i> , 2003, 36, 2441-2452.	5.1	27
16	Nonlinear Processing and Semantic Content Analysis in Medical Imaging – A Cognitive Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2005, 54, 2149-2155.	2.4	27
17	Intelligent image content semantic description for cardiac 3D visualisations. <i>Engineering Applications of Artificial Intelligence</i> , 2011, 24, 1410-1418.	4.3	27
18	Development of novel ensemble model using stacking learning and evolutionary computation techniques for automated hepatocellular carcinoma detection. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 1512-1524.	3.3	27

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19	Computational intelligence in solving bioinformatics problems. Artificial Intelligence in Medicine, 2005, 35, 1-8.	3.8	26
20	Assessment of electrocardiogram visual interpretation strategy based on scanpath analysis. Physiological Measurement, 2006, 27, 597-608.	1.2	25
21	Why Automatic Understanding?. Lecture Notes in Computer Science, 2007, , 477-491.	1.0	24
22	How to select an optimal neural model of chemical reactivity?. Neurocomputing, 2008, 72, 241-256.	3.5	23
23	Real Time Multipurpose Smart Waste Classification Model for Efficient Recycling in Smart Cities Using Multilayer Convolutional Neural Network and Perceptron. Sensors, 2021, 21, 4916.	2.1	23
24	Cognitive techniques in medical information systems. Computers in Biology and Medicine, 2008, 38, 501-507.	3.9	22
25	Signal-piloted processing metaheuristic optimization and wavelet decomposition based elucidation of arrhythmia for mobile healthcare. Biocybernetics and Biomedical Engineering, 2022, 42, 681-694.	3.3	21
26	The automatic understanding approach to systems analysis and design. International Journal of Information Management, 2008, 28, 38-48.	10.5	20
27	Intelligent Semantic Information Retrieval in Medical Pattern Cognitive Analysis. Lecture Notes in Computer Science, 2005, , 852-857.	1.0	17
28	Graph image language techniques supporting radiological, hand image interpretations. Computer Vision and Image Understanding, 2006, 103, 112-120.	3.0	17
29	Cognitive Computing in Intelligent Medical Pattern Recognition Systems. , 2006, , 851-856.		16
30	Image Understanding Methods in Biomedical Informatics and Digital Imaging. Journal of Biomedical Informatics, 2001, 34, 377-386.	2.5	15
31	Assessment of dots and globules in dermoscopic color images as one of the 7-point check list criteria. , 2013, , .		15
32	Hair removal from dermoscopic color images. Bio-Algorithms and Med-Systems, 2013, 9, 53-58.	1.0	15
33	Automated epidermis segmentation in histopathological images of human skin stained with hematoxylin and eosin. Proceedings of SPIE, 2017, , .	0.8	15
34	Cognitive Approach to Visual Data Interpretation in Medical Information and Recognition Systems. Lecture Notes in Computer Science, 2006, , 244-250.	1.0	14
35	Application of Neural Network Enhanced Ground-Penetrating Radar to Localization of Burial Sites. Applied Artificial Intelligence, 2016, 30, 844-860.	2.0	13
36	Pre-treatment growth and IGF-I deficiency as main predictors of response to growth hormone therapy in neural models. Endocrine Connections, 2018, 7, 239-249.	0.8	13

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37	Exploring Neural Networks with C#. , 0, , .		13
38	Syntactic analysis and languages of shape feature description in computer-aided diagnosis and recognition of cancerous and inflammatory lesions of organs in selected X-ray images. Journal of Digital Imaging, 1999, 12, 24-27.	1.6	12
39	Colour-Based Binary Discrimination of Scarified Quercus robur Acorns under Varying Illumination. Sensors, 2016, 16, 1319.	2.1	11
40	Multistage Segmentation of Prostate Cancer Tissues Using Sample Entropy Texture Analysis. Entropy, 2020, 22, 1370.	1.1	11
41	Notes on a Linguistic Description as the Basis for Automatic Image Understanding. International Journal of Applied Mathematics and Computer Science, 2009, 19, 143-150.	1.5	10
42	Mathematical Linguistics in Cognitive Medical Image Interpretation Systems. Journal of Mathematical Imaging and Vision, 2009, 34, 328-340.	0.8	10
43	Ant-based extraction of rules in simple decision systems over ontological graphs. International Journal of Applied Mathematics and Computer Science, 2015, 25, 377-387.	1.5	10
44	New aspects of using the structural graph-grammar based techniques for recognition of selected medical images. Journal of Digital Imaging, 2001, 14, 231-232.	1.6	9
45	Pairwise Comparisons and Visual Perceptions of Equal Area Polygons. Perceptual and Motor Skills, 2009, 108, 37-42.	0.6	9
46	Assessment of Selected Parameters of the Automatic Scarification Device as an Example of a Device for Sustainable Forest Management. Sustainability, 2017, 9, 2370.	1.6	9
47	<title>Hardware-based image processing library for Virtex FPGA</title>. , 2000, 4212, 1.		8
48	Automatic Understanding of Signals. , 2004, , 577-590.		8
49	Intelligent Open Learning Systems. Intelligent Systems Reference Library, 2011, , .	1.0	8
50	Advances in syntactic imaging techniques for perception of medical images. Imaging Science Journal, 2001, 49, 113-120.	0.2	7
51	Speech in human system interaction. , 2010, , .		7
52	Design of a teledermatology system to support the consultation of dermoscopic cases using mobile technologies and cloud platform. Bio-Algorithms and Med-Systems, 2015, 11, 53-58.	1.0	7
53	Automation of the Acorn Scarification Process as a Contribution to Sustainable Forest Management. Case Study: Common Oak. Sustainability, 2017, 9, 2276.	1.6	7
54	Cognitive Computing in Analysis of 2D/3D Medical Images. , 2007, , .		6

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55	Decision support systems based on the Life Cycle Inventory for Municipal Solid Waste management under uncertainty. International Transactions in Operational Research, 2008, 15, 103-119.	1.8	6
56	Efficiency testing of artificial neural networks in predicting the properties of carbon nanomaterials as potential systems for nervous tissue stimulation and regeneration. Bio-Algorithms and Med-Systems, 2017, 13, 25-35.	1.0	6
57	Artificial Intelligence Techniques in Retrieval of Visual Data Semantic Information. , 2003, , 18-27.		6
58	Image Content Analysis for Cardiac 3D Visualizations. Lecture Notes in Computer Science, 2009, , 192-199.	1.0	6
59	Staphylococcal dermonecrotic reactions in guinea pigs. International Journal of Bio-medical Computing, 1987, 21, 67-74.	0.5	5
60	Cognitive Informatics in Automatic Pattern Understanding. , 2007, , .		5
61	Intelligent Image Content Description and Analysis for 3D Visualizations of Coronary Vessels. Lecture Notes in Computer Science, 2011, , 193-202.	1.0	5
62	Ant-Based Clustering in Delta Episode Information Systems Based on Temporal Rough Set Flow Graphs. Fundamenta Informaticae, 2013, 128, 143-158.	0.3	5
63	Neural modelling of growth hormone therapy for the prediction of therapy results. Bio-Algorithms and Med-Systems, 2015, 11, 33-45.	1.0	5
64	Impact of Novel Image Preprocessing Techniques on Retinal Vessel Segmentation. Electronics (Switzerland), 2021, 10, 2297.	1.8	5
65	Ant Based Clustering of Time Series Discrete Data â€œ A Rough Set Approach. Lecture Notes in Computer Science, 2011, , 645-653.	1.0	5
66	Cognitive Modeling in Medical Pattern Semantic Understanding. , 2008, , .		4
67	Vision-based detection of events using line-scan camera. , 2016, , .		4
68	Numerical modelling of GPR electromagnetic fields for locating burial sites. E3S Web of Conferences, 2017, 24, 01002.	0.2	4
69	Ant Based Clustering of Two-Class Sets with Well Categorized Objects. Communications in Computer and Information Science, 2012, , 241-250.	0.4	4
70	Learning in Neural Network â€œ Unusual Effects of â€œArtificial Dreamsâ€œ. Lecture Notes in Computer Science, 2006, , 211-218.	1.0	4
71	Cognitive Categorizing in UBIAS Intelligent Medical Information Systems. Studies in Computational Intelligence, 2008, , 75-94.	0.7	4
72	Neural network models - a novel tool for predicting the efficacy of growth hormone (GH) therapy in children with short stature. Neuroendocrinology Letters, 2015, 36, 348-53.	0.2	4

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73	Telerehabilitation approach for patients with hand impairment. Acta of Bioengineering and Biomechanics, 2016, 18, 55-62.	0.2	4
74	Cognitive Vision Systems in Medical Applications. Lecture Notes in Computer Science, 2003, , 116-123.	1.0	3
75	A New Approach to the Computer Support of Strategic Decision Making in Enterprises by Means of a New Class of Understanding Based Management Support Systems. , 2007, , .		3
76	Speaker identification based on artificial neural networks. Case study: the Polish vowel (pilot study). Bio-Algorithms and Med-Systems, 2014, 10, 91-99.	1.0	3
77	Analyzing the Features Affecting the Performance of Teachers during Covid-19: A Multilevel Feature Selection. Electronics (Switzerland), 2021, 10, 1673.	1.8	3
78	A novel approach based on genetic algorithm to speed up the discovery of classification rules on GPUs. Knowledge-Based Systems, 2021, 231, 107419.	4.0	3
79	Detection and Classification of Pigment Network in Dermoscopic Color Images as One of the 7-Point Checklist Criteria. Advances in Intelligent Systems and Computing, 2018, , 174-181.	0.5	3
80	Graph-based semantic description and information extraction in analysis of 3D coronary vessels visualizations. Studies in Computational Intelligence, 2008, , 303-309.	0.7	3
81	Man-Machine Interaction Improvement by Means of Automatic Human Personality Identification. Lecture Notes in Computer Science, 2014, , 278-289.	1.0	3
82	The Utilization of Context Signals in the Analysis of ABR Potentials by Application of Neural Networks. Lecture Notes in Computer Science, 2000, , 195-202.	1.0	3
83	<title>Processing, analysis, recognition, and automatic understanding of medical images</title>. , 2004, 5505, 101.		2
84	Cognitive Approach to Medical Pattern Recognition, Structure Modelling and Image Understanding. , 2008, , .		2
85	Cognitive Categorization in Medical Structures Modeling and Image Understanding. , 2008, , .		2
86	Towards New Classes of Cognitive Vision Systems. , 2010, , .		2
87	Tender with Success – The Pairwise Comparisons Approach. Procedia Computer Science, 2014, 35, 1122-1131.	1.2	2
88	Vision-based assessment of viability of acorns using sections of their cotyledons during automated scarification procedure. Bio-Algorithms and Med-Systems, 2018, 14, .	1.0	2
89	Intelligent Web Mining for Semantically Adequate Images. , 2007, , 3-10.		2
90	Telemedical System in Evaluation of Auditory Brainstem Responses and Support of Diagnosis. Lecture Notes in Computer Science, 2010, , 21-28.	1.0	2

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91	The Motivation Model for the Intellectual Capital Increasing in the Knowledge-Base Organization. Studies in Computational Intelligence, 2011, , 47-56.	0.7	2
92	Assessment of Asymmetry in Dermoscopic Colour Images of Pigmented Skin Lesions. , 2013, , .		2
93	The New Concept in Computer Vision: Automatic Understanding of the Images. Lecture Notes in Computer Science, 2004, , 133-144.	1.0	2
94	Ant Based Clustering of MMPI Data - An Experimental Study. Lecture Notes in Computer Science, 2011, , 366-375.	1.0	2
95	Use e-learning technology and cybernetic methodology for modern education in the area of prevention of environmental health hazard based on sustainable development. Trace Elements and Electrolytes, 2011, 28, 74-82.	0.1	2
96	Virtual Teaching on the Basis of Experiments in Computer-Assisted Instruction at the University of Mining and Metallurgy of Cracow. Higher Education in Europe, 2001, 26, 553-566.	0.6	1
97	New approach for cognitive analysis and understanding of medical patterns and visualizations. , 2003, , .		1
98	Intelligent Recognition in Medical Pattern Understanding and Cognitive Analysis. , 2005, , 257-274.		1
99	Modeling of ECG Interpretation Methods Sharing Based on Human Experts Relations. , 2006, 2006, 4663-6.		1
100	Graph-based Linguistic Formalisms in Spatial Modelling of 3D Coronary Vessels. , 2007, , .		1
101	Assessing the properties of the World Health Organization’s Quality of Life Index. Proceedings of the International Multiconference on Computer Science and Information Technology, 2008, , .	0.0	1
102	Modern Methods for the Cognitive Analysis of Economic Data and Text Documents and their Application in Enterprise Management. , 2008, , .		1
103	Medical pattern understanding based on cognitive linguistic formalisms and computational intelligence methods. , 2008, , .		1
104	AI-Cognitive Description in Visual Medical Pattern Mining and Retrieval. , 2008, , .		1
105	Voice as a Key. , 2009, , .		1
106	Cognitive Reasoning in UBIAS Systems Supporting Interpretation of Medical Images. , 2009, , .		1
107	New Classes of UBIAS and E-UBIAS Cognitive Vision Systems. , 2010, , .		1
108	The recruitment and selection of staff problem with an Ant Colony system. , 2010, , .		1

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109	Systemy wizyjne automatu do przewidzenia przygotowania ¼oÄ™dzi. Przegląd Elektrotechniczny, 2021, 1, 190-193.	0.1	1
110	The Use of Strategies of Normalized Correlation in the Ant-Based Clustering Algorithm. Lecture Notes in Computer Science, 2011, , 637-644.	1.0	1
111	Picture Languages in Intelligent Retrieval of Visual Data Semantic Information. Lecture Notes in Computer Science, 2004, , 389-396.	1.0	1
112	UBIAS – Type Cognitive Systems for Medical Pattern Interpretation. Lecture Notes in Computer Science, 2009, , 177-183.	1.0	1
113	The Ant Colony Optimization Algorithm for Multiobjective Optimization Non-compensation Model Problem Staff Selection. Lecture Notes in Computer Science, 2010, , 44-53.	1.0	1
114	Earliest Computer Vision Systems in Poland. Advances in Intelligent and Soft Computing, 2010, , 3-13.	0.2	1
115	Classification of Speech Signals through Ant Based Clustering of Time Series. Lecture Notes in Computer Science, 2012, , 335-343.	1.0	1
116	Understanding Based Managing Support Systems. , 0, , 91-102.		1
117	6. Simulation-based analysis of musculoskeletal system properties. , 2015, , 99-118.		0
118	9. Melanoma thickness prediction. , 0, , .		0
119	10. Simulating cancer chemotherapy. , 2015, , 197-206.		0
120	Anti-staphylococcal serine proteinase and other serum factors in phagocytosis. Journal of Basic Microbiology, 1990, 30, 341-347.	1.8	0
121	Cellular neural networks (with CNNS [Cellular Neural Network Simulator] software – ver.3.6). Neurocomputing, 1995, 8, 224-225.	3.5	0
122	Research on the changes in voice quality caused by tonsillectomy. Bio-Algorithms and Med-Systems, 2012, 8, 159.	1.0	0
123	New Approach to Prostate Diagnosis - Perfusion CT Images Analysis using "Life Belt" Method. Bio-Algorithms and Med-Systems, 2012, 8, 145.	1.0	0
124	Ant Colony Inspired Clustering Based on the Distribution Function of the Similarity of Attributes. Studies in Computational Intelligence, 2013, , 147-156.	0.7	0
125	Influence of neural network structure and data-set size on its performance in the prediction of height of growth hormone-treated patients. Bio-Algorithms and Med-Systems, 2016, 12, 53-59.	1.0	0
126	A Design Study of Orthotic Shoe Based on Pain Pressure Measurement Using Algometer for Calcaneal Spur Patients. Technologies, 2021, 9, 62.	3.0	0

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127	Cognitive Information Systems for Medical Pattern Analysis and Diagnosis Support Technologies. Studies in Computational Intelligence, 2009, , 13-19.	0.7	0
128	UBIAS Systems supporting interpretation of radiological images. Studies in Computational Intelligence, 2009, , 413-419.	0.7	0
129	Some Interesting Phenomenon Occurring During Self-learning Process with Its Psychological Interpretation. Studies in Computational Intelligence, 2018, , 127-139.	0.7	0
130	Book review "Process maturity of hospitals and the quality of medical services" by Beata Detyna. Bio-Algorithms and Med-Systems, 2022, 18, 13-15.	1.0	0
131	Cognitive Computing in Intelligent Medical Pattern Recognition Systems. , 2006, , 851-856.		0
132	Automat do skaryfikacji i oceny Å¼ywotnoÅci Å¼oÅi. , 2022, , 169-181.		0