

Andrzej Bielecki

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

457
citations

13
h-index

17
g-index

89
ext. papers

529
ext. citations

1.9
avg, IF

4.16
L-index

#	Paper	IF	Citations
74	Hand radiographs preprocessing, image representation in the finger regions and joint space width measurements for image interpretation. <i>Pattern Recognition</i> , 2008 , 41, 3786-3798	7.7	40
73	Wind speed modelling using Weierstrass function fitted by a genetic algorithm. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012 , 109, 68-78	3.7	25
72	The externalities of energy production in the context of development of clean energy generation. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 11506-11530	5.1	22
71	Recognition of two-dimensional representation of urban environment for autonomous flying agents. <i>Expert Systems With Applications</i> , 2013 , 40, 3623-3633	7.8	22
70	Model of neurotransmitter fast transport in axon terminal of presynaptic neuron. <i>Journal of Mathematical Biology</i> , 2008 , 56, 559-76	2	19
69	Compartment model of neuropeptide synaptic transport with impulse control. <i>Biological Cybernetics</i> , 2008 , 99, 443-58	2.8	17
68	A hybrid system for forecasting 24-h power load profile for Polish electric grid. <i>Applied Soft Computing Journal</i> , 2017 , 58, 527-539	7.5	16
67	Application of Shape Description Methodology to Hand Radiographs Interpretation. <i>Lecture Notes in Computer Science</i> , 2010 , 11-18	0.9	16
66	The general entity of life: a cybernetic approach. <i>Biological Cybernetics</i> , 2015 , 109, 401-19	2.8	15
65	Identifying the Borders of the Upper and Lower Metacarpophalangeal Joint Surfaces on Hand Radiographs. <i>Lecture Notes in Computer Science</i> , 2010 , 589-596	0.9	14
64	Syntactic Algorithm of Two-Dimensional Scene Analysis for Unmanned Flying Vehicles. <i>Lecture Notes in Computer Science</i> , 2012 , 304-312	0.9	13
63	Mental organization according to the metabolism of information model and its mathematical description. <i>International Journal of Neuroscience</i> , 2001 , 107, 173-84	2	13
62	Modified Jakubowski Shape Transducer for Detecting Osteophytes and Erosions in Finger Joints. <i>Lecture Notes in Computer Science</i> , 2011 , 147-155	0.9	13
61	Hybrid system of ART and RBF neural networks for online clustering. <i>Applied Soft Computing Journal</i> , 2017 , 58, 1-10	7.5	12
60	Wind Turbines States Classification by a Fuzzy-ART Neural Network with a Stereographic Projection as a Signal Normalization. <i>Lecture Notes in Computer Science</i> , 2011 , 225-234	0.9	12
59	Modelling of a chaotic load of wind turbines drivetrain. <i>Mechanical Systems and Signal Processing</i> , 2015 , 54-55, 491-505	7.8	11
58	The proposal of philosophical basis of the health care system. <i>Medicine, Health Care and Philosophy</i> , 2017 , 20, 23-35	2	10

57	Numerical simulation for a neurotransmitter transport model in the axon terminal of a presynaptic neuron. <i>Biological Cybernetics</i> , 2010 , 102, 489-502	2.8	10
56	Dynamical properties of the reaction-diffusion type model of fast synaptic transport. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 393, 329-340	1.1	9
55	ART-Type Artificial Neural Networks Applications for Classification of Operational States in Wind Turbines. <i>Lecture Notes in Computer Science</i> , 2010 , 11-18	0.9	9
54	Magnetic Resonance Image Quality Assessment by Using Non-Maximum Suppression and Entropy Analysis. <i>Entropy</i> , 2020 , 22,	2.8	8
53	Dynamical Properties of a Perceptron Learning Process: Structural Stability Under Numerics and Shadowing. <i>Journal of Nonlinear Science</i> , 2011 , 21, 579-593	2.8	8
52	Shadowing property in analysis of neural networks dynamics. <i>Journal of Computational and Applied Mathematics</i> , 2004 , 164-165, 107-115	2.4	7
51	SYSTEMS THEORY APPROACH TO THE HEALTH CARE ORGANIZATION ON NATIONAL LEVEL. <i>Cybernetics and Systems</i> , 2010 , 41, 489-507	1.9	6
50	Neural Systems for Short-Term Forecasting of Electric Power Load. <i>Lecture Notes in Computer Science</i> , 2007 , 133-142	0.9	6
49	Dynamical properties of learning process of weakly nonlinear and nonlinear neurons. <i>Nonlinear Analysis: Real World Applications</i> , 2001 , 2, 249-258	2.1	6
48	Three-Dimensional Urban-Type Scene Representation in Vision System of Unmanned Flying Vehicles. <i>Lecture Notes in Computer Science</i> , 2014 , 662-671	0.9	6
47	Concentrated Solar Power Plants with Molten Salt Storage: Economic Aspects and Perspectives in the European Union. <i>International Journal of Photoenergy</i> , 2019 , 2019, 1-10	2.1	5
46	Graph representation for two-dimensional scene understanding by the cognitive vision module. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141668269	1.4	5
45	ART-2 Artificial Neural Networks Applications for Classification of Vibration Signals and Operational States of Wind Turbines for Intelligent Monitoring. <i>Lecture Notes in Mechanical Engineering</i> , 2014 , 679-688	0.4	5
44	A Model of Human Activity Automatization as a Basis of Artificial Intelligence Systems. <i>IEEE Transactions on Autonomous Mental Development</i> , 2014 , 6, 169-182		5
43	Prediction of Traffic Intensity for Dynamic Street Lighting 2017 ,		5
42	Topological conjugacy of discrete time-map and Euler discrete dynamical systems generated by a gradient flow on a two-dimensional compact manifold. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2002 , 51, 1293-1317	1.3	5
41	Dynamic systems theory approach to consciousness. <i>International Journal of Neuroscience</i> , 2000 , 104, 29-47	2	5
40	An Evolutionary Algorithm for Solving the Inverse Problem for Iterated Function Systems for a Two Dimensional Image. <i>Advances in Soft Computing</i> , 2005 , 347-354		5

39	Foundations of Artificial Neural Networks. <i>Studies in Computational Intelligence</i> , 2019 , 15-28	0.8	4
38	Estimation of the Euler method error on a Riemannian manifold. <i>Communications in Numerical Methods in Engineering</i> , 2002 , 18, 757-763		4
37	Topological conjugacy of cascades generated by gradient flows on the two-dimensional sphere. <i>Annales Polonici Mathematici</i> , 2000 , 73, 37-57	1.3	4
36	Hybrid System of ART and RBF Neural Networks for Classification of Vibration Signals and Operational States of Wind Turbines. <i>Lecture Notes in Computer Science</i> , 2014 , 3-11	0.9	4
35	Improved Fuzzy Entropy Algorithm for X-Ray Pictures Preprocessing. <i>Lecture Notes in Computer Science</i> , 2012 , 268-275	0.9	4
34	Analysis of Healthcare Systems by Using Systemic Approach. <i>Complexity</i> , 2019 , 2019, 1-12	1.6	3
33	Construction of a 3D Geometric Model of a Presynaptic Bouton for Use in Modeling of Neurotransmitter Flow. <i>Lecture Notes in Computer Science</i> , 2016 , 377-386	0.9	3
32	Vision Based Techniques of 3D Obstacle Reconfiguration for the Outdoor Drilling Mobile Robot. <i>Lecture Notes in Computer Science</i> , 2016 , 602-612	0.9	2
31	Properties and applications of weakly nonlinear neurons. <i>Journal of Computational and Applied Mathematics</i> , 2004 , 164-165, 93-106	2.4	2
30	A study on efficiency of 3D partial differential diffusive model of presynaptic processes. <i>Biocybernetics and Biomedical Engineering</i> , 2020 , 40, 100-118	5.7	2
29	Agent's Adaptivity - Some Aspects of Theoretical Foundations of a Neural Agent Training Process. <i>Lecture Notes in Computer Science</i> , 2002 , 47-53	0.9	2
28	Fractal Modelling of Various Wind Characteristics for Application in a Cybernetic Model of a Wind Turbine. <i>Lecture Notes in Computer Science</i> , 2012 , 531-538	0.9	1
27	Input Signals Normalization in Kohonen Neural Networks. <i>Lecture Notes in Computer Science</i> , 2008 , 3-10	0.9	1
26	Hybrid Neural Systems in Exchange Rate Prediction. <i>Studies in Computational Intelligence</i> , 2008 , 211-230	0.8	1
25	A Multi-agent System Based on the Information Metabolism Theory. <i>Lecture Notes in Computer Science</i> , 2004 , 439-446	0.9	1
24	Evolutionary Viral-type Algorithm for the Inverse Problem for Iterated Function Systems 2008 , 579-588		1
23	A Neural-Based Agent for IP Traffic Scanning and Worm Detection. <i>Lecture Notes in Computer Science</i> , 2004 , 816-822	0.9	1
22	Three-Dimensional Outdoor Analysis of Single Synthetic Building Structures by an Unmanned Flying Agent Using Monocular Vision. <i>Sensors</i> , 2021 , 21,	3.8	1

21	Simulation of Neurotransmitter Flow in Three Dimensional Model of Presynaptic Bouton. <i>Lecture Notes in Computer Science, 2020</i> , 132-143	0.9	1
20	Vertical Axis Wind Turbine States Classification by an ART-2 Neural Network with a Stereographic Projection as a Signal Normalization. <i>Applied Condition Monitoring, 2016</i> , 265-275	0.2	1
19	Neural System for Power Load Prediction in a Week Time Horizon. <i>Lecture Notes in Computer Science, 2016</i> , 25-34	0.9	1
18	A Shape Description Language for Osteophytes Detection in Upper Surfaces of the Metacarpophalangeal Joints. <i>Advances in Intelligent and Soft Computing, 2011</i> , 479-487		1
17	Conditioned Anxiety Mechanism as a Basis for a Procedure of Control Module of an Autonomous Robot. <i>Lecture Notes in Computer Science, 2017</i> , 390-398	0.9	1
16	The Systemic Concept of Contextual Truth. <i>Foundations of Science, 2020</i> , 1	0.8	1
15	The Concept of the Constructional Solution of the Working Section of a Robot for Harvesting Strawberries. <i>Sensors, 2021</i> , 21,	3.8	1
14	Three-Dimensional Model of Signal Processing in the Presynaptic Bouton of the Neuron. <i>Lecture Notes in Computer Science, 2018</i> , 3-14	0.9	1
13	Hybrid AI system based on ART neural network and Mixture of Gaussians modules with application to intelligent monitoring of the wind turbine. <i>Applied Soft Computing Journal, 2021</i> , 108, 107400	7.5	1
12	Estimation of Numerical Dynamics Constants of a Weakly Nonlinear Neuron. <i>Lecture Notes in Computer Science, 2002</i> , 862-869	0.9	1
11	Universal Measure for Medical Image Quality Evaluation Based on Gradient Approach. <i>Lecture Notes in Computer Science, 2020</i> , 406-417	0.9	0
10	Unsupervised detection of rotary machine imbalance based on statistical signal properties. <i>Mechanical Systems and Signal Processing, 2022</i> , 167, 108497	7.8	0
9	Proposal of an Intelligent, Predictive Fuzzy Controller for Off-Grid Devices. <i>IFAC-PapersOnLine, 2016</i> , 49, 523-528	0.7	0
8	Blind image quality assessment of magnetic resonance images with statistics of local intensity extrema. <i>Information Sciences, 2022</i> , 606, 112-125	7.7	0
7	Artificial Neural Networks Application to Calculate Parameter Values in the Magnetotelluric Method. <i>Lecture Notes in Computer Science, 2007</i> , 558-561	0.9	
6	Localizing Characteristic Points on a Vertebra Contour by Using Shape Language. <i>Lecture Notes in Computer Science, 2018</i> , 341-348	0.9	
5	Dynamic Trust Scoring of Railway Sensor Information. <i>Lecture Notes in Computer Science, 2018</i> , 579-591	0.9	
4	An Evolutionary-Neural Algorithm for Solving Inverse IFS Problem for Images in Two-Dimensional Space. <i>Lecture Notes in Computer Science, 2012</i> , 22-29	0.9	

- 3 Cognitive aspects of participation: Evidence from two studies. *Polish Psychological Bulletin*, **2012**, 43, 310-323
- 2 Compression of Synthetic-Aperture Radar Images. *Lecture Notes in Computer Science*, **2014**, 92-99 0.9
- 1 The Information Encoded in Structures: Theory and Application to Molecular Cybernetics. *Foundations of Science*, 1 0.8