

# Andrzej Bielecki

## List of Publications by Year in Descending Order

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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	Unsupervised detection of rotary machine imbalance based on statistical signal properties. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 167, 108497	7.8	0
73	Blind image quality assessment of magnetic resonance images with statistics of local intensity extrema. <i>Information Sciences</i> , <b>2022</b> , 606, 112-125	7.7	0
72	Three-Dimensional Outdoor Analysis of Single Synthetic Building Structures by an Unmanned Flying Agent Using Monocular Vision. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
71	The Concept of the Constructional Solution of the Working Section of a Robot for Harvesting Strawberries. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
70	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</i> , <b>2021</b> , 108, 107400	7.5	1
69	The externalities of energy production in the context of development of clean energy generation. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 11506-11530	5.1	22
68	Magnetic Resonance Image Quality Assessment by Using Non-Maximum Suppression and Entropy Analysis. <i>Entropy</i> , <b>2020</b> , 22,	2.8	8
67	Universal Measure for Medical Image Quality Evaluation Based on Gradient Approach. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 406-417	0.9	0
66	Simulation of Neurotransmitter Flow in Three Dimensional Model of Presynaptic Bouton. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 132-143	0.9	1
65	The Systemic Concept of Contextual Truth. <i>Foundations of Science</i> , <b>2020</b> , 1	0.8	1
64	A study on efficiency of 3D partial differential diffusive model of presynaptic processes. <i>Biocybernetics and Biomedical Engineering</i> , <b>2020</b> , 40, 100-118	5.7	2
63	Concentrated Solar Power Plants with Molten Salt Storage: Economic Aspects and Perspectives in the European Union. <i>International Journal of Photoenergy</i> , <b>2019</b> , 2019, 1-10	2.1	5
62	Analysis of Healthcare Systems by Using Systemic Approach. <i>Complexity</i> , <b>2019</b> , 2019, 1-12	1.6	3
61	Foundations of Artificial Neural Networks. <i>Studies in Computational Intelligence</i> , <b>2019</b> , 15-28	0.8	4
60	Localizing Characteristic Points on a Vertebra Contour by Using Shape Language. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 341-348	0.9	
59	Dynamic Trust Scoring of Railway Sensor Information. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 579-591	0.9	
58	Three-Dimensional Model of Signal Processing in the Presynaptic Bouton of the Neuron. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 3-14	0.9	1

57	A hybrid system for forecasting 24-h power load profile for Polish electric grid. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 58, 527-539	7.5	16
56	Hybrid system of ART and RBF neural networks for online clustering. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 58, 1-10	7.5	12
55	Graph representation for two-dimensional scene understanding by the cognitive vision module. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141668269	1.4	5
54	The proposal of philosophical basis of the health care system. <i>Medicine, Health Care and Philosophy</i> , <b>2017</b> , 20, 23-35	2	10
53	Prediction of Traffic Intensity for Dynamic Street Lighting <b>2017</b> ,		5
52	Conditioned Anxiety Mechanism as a Basis for a Procedure of Control Module of an Autonomous Robot. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 390-398	0.9	1
51	Vision Based Techniques of 3D Obstacle Reconfiguration for the Outdoor Drilling Mobile Robot. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 602-612	0.9	2
50	Vertical Axis Wind Turbine States Classification by an ART-2 Neural Network with a Stereographic Projection as a Signal Normalization. <i>Applied Condition Monitoring</i> , <b>2016</b> , 265-275	0.2	1
49	Neural System for Power Load Prediction in a Week Time Horizon. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 25-34	0.9	1
48	Construction of a 3D Geometric Model of a Presynaptic Bouton for Use in Modeling of Neurotransmitter Flow. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 377-386	0.9	3
47	Proposal of an Intelligent, Predictive Fuzzy Controller for Off-Grid Devices. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 523-528	0.7	0
46	Modelling of a chaotic load of wind turbines drivetrain. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 54-55, 491-505	7.8	11
45	The general entity of life: a cybernetic approach. <i>Biological Cybernetics</i> , <b>2015</b> , 109, 401-19	2.8	15
44	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> , <b>2014</b> , 679-688	0.4	5
43	A Model of Human Activity Automatization as a Basis of Artificial Intelligence Systems. <i>IEEE Transactions on Autonomous Mental Development</i> , <b>2014</b> , 6, 169-182		5
42	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> , <b>2014</b> , 3-11	0.9	4
41	Three-Dimensional Urban-Type Scene Representation in Vision System of Unmanned Flying Vehicles. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 662-671	0.9	6
40	Compression of Synthetic-Aperture Radar Images. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 92-99	0.9	

39	Recognition of two-dimensional representation of urban environment for autonomous flying agents. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 3623-3633	7.8	22
38	Dynamical properties of the reaction-diffusion type model of fast synaptic transport. <i>Journal of Mathematical Analysis and Applications</i> , <b>2012</b> , 393, 329-340	1.1	9
37	Wind speed modelling using Weierstrass function fitted by a genetic algorithm. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2012</b> , 109, 68-78	3.7	25
36	Syntactic Algorithm of Two-Dimensional Scene Analysis for Unmanned Flying Vehicles. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 304-312	0.9	13
35	Fractal Modelling of Various Wind Characteristics for Application in a Cybernetic Model of a Wind Turbine. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 531-538	0.9	1
34	Improved Fuzzy Entropy Algorithm for X-Ray Pictures Preprocessing. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 268-275	0.9	4
33	An Evolutionary-Neural Algorithm for Solving Inverse IFS Problem for Images in Two-Dimensional Space. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 22-29	0.9	
32	Cognitive aspects of participation: Evidence from two studies. <i>Polish Psychological Bulletin</i> , <b>2012</b> , 43, 310-323		
31	Dynamical Properties of a Perceptron Learning Process: Structural Stability Under Numerics and Shadowing. <i>Journal of Nonlinear Science</i> , <b>2011</b> , 21, 579-593	2.8	8
30	Modified Jakubowski Shape Transducer for Detecting Osteophytes and Erosions in Finger Joints. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 147-155	0.9	13
29	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> , <b>2011</b> , 225-234	0.9	12
28	A Shape Description Language for Osteophytes Detection in Upper Surfaces of the Metacarpophalangeal Joints. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 479-487		1
27	SYSTEMS THEORY APPROACH TO THE HEALTH CARE ORGANIZATION ON NATIONAL LEVEL. <i>Cybernetics and Systems</i> , <b>2010</b> , 41, 489-507	1.9	6
26	Numerical simulation for a neurotransmitter transport model in the axon terminal of a presynaptic neuron. <i>Biological Cybernetics</i> , <b>2010</b> , 102, 489-502	2.8	10
25	Identifying the Borders of the Upper and Lower Metacarpophalangeal Joint Surfaces on Hand Radiographs. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 589-596	0.9	14
24	ART-Type Artificial Neural Networks Applications for Classification of Operational States in Wind Turbines. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 11-18	0.9	9
23	Application of Shape Description Methodology to Hand Radiographs Interpretation. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 11-18	0.9	16
22	Input Signals Normalization in Kohonen Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 3-10	0.9	1

21	Hybrid Neural Systems in Exchange Rate Prediction. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 211-230.	0.8	1
20	Model of neurotransmitter fast transport in axon terminal of presynaptic neuron. <i>Journal of Mathematical Biology</i> , <b>2008</b> , 56, 559-76	2	19
19	Compartment model of neuropeptide synaptic transport with impulse control. <i>Biological Cybernetics</i> , <b>2008</b> , 99, 443-58	2.8	17
18	Hand radiographs preprocessing, image representation in the finger regions and joint space width measurements for image interpretation. <i>Pattern Recognition</i> , <b>2008</b> , 41, 3786-3798	7.7	40
17	Evolutionary Viral-type Algorithm for the Inverse Problem for Iterated Function Systems <b>2008</b> , 579-588		1
16	Neural Systems for Short-Term Forecasting of Electric Power Load. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 133-142	0.9	6
15	Artificial Neural Networks Application to Calculate Parameter Values in the Magnetotelluric Method. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 558-561	0.9	
14	An Evolutionary Algorithm for Solving the Inverse Problem for Iterated Function Systems for a Two Dimensional Image. <i>Advances in Soft Computing</i> , <b>2005</b> , 347-354		5
13	A Multi-agent System Based on the Information Metabolism Theory. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 439-446	0.9	1
12	Shadowing property in analysis of neural networks dynamics. <i>Journal of Computational and Applied Mathematics</i> , <b>2004</b> , 164-165, 107-115	2.4	7
11	Properties and applications of weakly nonlinear neurons. <i>Journal of Computational and Applied Mathematics</i> , <b>2004</b> , 164-165, 93-106	2.4	2
10	A Neural-Based Agent for IP Traffic Scanning and Worm Detection. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 816-822	0.9	1
9	Estimation of the Euler method error on a Riemannian manifold. <i>Communications in Numerical Methods in Engineering</i> , <b>2002</b> , 18, 757-763		4
8	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 &amp; Applications</i> , <b>2002</b> , 51, 1293-1317	1.3	5
7	Agent's Adaptivity Some Aspects of Theoretical Foundations of a Neural Agent Training Process. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 47-53	0.9	2
6	Estimation of Numerical Dynamics Constants of a Weakly Nonlinear Neuron. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 862-869	0.9	1
5	Dynamical properties of learning process of weakly nonlinear and nonlinear neurons. <i>Nonlinear Analysis: Real World Applications</i> , <b>2001</b> , 2, 249-258	2.1	6
4	Mental organization according to the metabolism of information model and its mathematical description. <i>International Journal of Neuroscience</i> , <b>2001</b> , 107, 173-84	2	13

3	Dynamic systems theory approach to consciousness. <i>International Journal of Neuroscience</i> , <b>2000</b> , 104, 29-47	2	5
2	Topological conjugacy of cascades generated by gradient flows on the two-dimensional sphere. <i>Annales Polonici Mathematici</i> , <b>2000</b> , 73, 37-57	1.3	4
1	The Information Encoded in Structures: Theory and Application to Molecular Cybernetics. <i>Foundations of Science</i> , 1	0.8	