Krzysztof CpaÅ‚ka

List of Publications by Year
in descending order

70 papers	1,274 citations	331259 21 h-index	360668 35 g-index
71 all docs	71 docs citations	71 times ranked	318 citing authors

#	Article	IF	Citations
1	Hybrid Approaches to Nature-Inspired Population-Based Intelligent Optimization for Industrial Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 546-558.	7.2	17
2	Guest Editorial: Hybrid Approaches to Nature-Inspired Population-Based Intelligent Optimization for Industrial Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 542-545.	7.2	4
3	A Low-Dimensional Layout of Magnetic Units as Nano-Systems of Combinatorial Logic: Numerical Simulations. Materials, 2021, 14, 2974.	1.3	1
4	Synthesis of Vertically Aligned Porous Silica Thin Films Functionalized by Silver Ions. International Journal of Molecular Sciences, 2021, 22, 7505.	1.8	4
5	Dynamic Signature Vertical Partitioning Using Selected Population-Based Algorithms. Lecture Notes in Computer Science, 2021, , 511-518.	1.0	0
6	Population Management Approaches in the OPn Algorithm. Lecture Notes in Computer Science, 2021, , 402-414.	1.0	1
7	A population-based algorithm with the selection of evaluation precision and size of the population. Applied Soft Computing Journal, 2021, 115, 108154.	4.1	2
8	An interpretable fuzzy system in the on-line signature scalable verification. , 2020, , .		2
9	Synthesis in Silica Nanoreactor: Copper Pyrophosphate Quantum Dots and Silver Oxide Nanocrystallites Inside Silica Mezochannels. Materials, 2020, 13, 2009.	1.3	5
10	Multipopulation Nature-Inspired Algorithm (MNIA) for the Designing of Interpretable Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 1125-1139.	6.5	14
11	On-Line Signature Partitioning Using a Population Based Algorithm. Journal of Artificial Intelligence and Soft Computing Research, 2020, 10, 5-13.	3.5	15
12	Evolutionary Algorithm with a Configurable Search Mechanism. Journal of Artificial Intelligence and Soft Computing Research, 2020, 10, 151-171.	3.5	15
13	An Algorithm for the Evolutionary-Fuzzy Generation of on-Line Signature Hybrid Descriptors. Journal of Artificial Intelligence and Soft Computing Research, 2020, 10, 173-187.	3.5	9
14	The Dynamic Signature Verification Using population-Based Vertical Partitioning. Lecture Notes in Computer Science, 2020, , 569-579.	1.0	1
15	Signature Partitioning Using Selected Population-Based Algorithms. Lecture Notes in Computer Science, 2020, , 480-488.	1.0	0
16	A Population-Based Method with Selection of a Search Operator. Lecture Notes in Computer Science, 2020, , 429-444.	1.0	0
17	Algorithm Based on Population With a Flexible Search Mechanism. IEEE Access, 2019, 7, 132253-132270.	2.6	5
18	The Method of Predicting Changes of a Dynamic Signature Using Possibilities of Population-Based Algorithms. Lecture Notes in Computer Science, 2019, , 540-549.	1.0	2

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19	A new method for signature verification based on selection of the most important partitions of the dynamic signature. Neurocomputing, 2018, 289, 13-22.	3.5	12
20	Flexible Fuzzy PID Controller (FFPIDC) and a Nature-Inspired Method for Its Construction. IEEE Transactions on Industrial Informatics, 2018, 14, 1078-1088.	7.2	22
21	Prediction of values of the dynamic signature features. Expert Systems With Applications, 2018, 104, 86-96.	4.4	20
22	A Method for Genetic Selection of the Dynamic Signature Global Featuresâ€™ Subset. Advances in Intelligent Systems and Computing, 2018, , 73-82.	0.5	3
23	Evolutionary Approach for Automatic Design of PID Controllers. Studies in Computational Intelligence, 2018, , 353-373.	0.7	2
24	Fuzzy-Genetic Approach to Identity Verification Using a Handwritten Signature. Studies in Computational Intelligence, 2018, , 375-394.	0.7	3
25	New Aspects of Interpretability of Fuzzy Systems for Nonlinear Modeling. Studies in Computational Intelligence, 2018, , 225-264.	0.7	10
26	Negative Space-Based Population Initialization Algorithm (NSPIA). Lecture Notes in Computer Science, 2018, , 449-461.	1.0	8
27	Stability of Features Describing the Dynamic Signature Biometric Attribute. Lecture Notes in Computer Science, 2018, , 250-261.	1.0	0
28	Introduction to Fuzzy System Interpretability. Studies in Computational Intelligence, 2017, , 27-36.	0.7	1
29	Improving Fuzzy Systems Interpretability by Appropriate Selection of Their Structure. Studies in Computational Intelligence, 2017, , 37-60.	0.7	1
30	Fuzzy PID Controllers with FIR Filtering and a Method for Their Construction. Lecture Notes in Computer Science, 2017, , 292-307.	1.0	3
31	A Method for Genetic Selection of the Most Characteristic Descriptors of the Dynamic Signature. Lecture Notes in Computer Science, 2017, , 747-760.	1.0	4
32	A Method for Changes Prediction of the Dynamic Signature Global Features over Time. Lecture Notes in Computer Science, 2017, , 761-772.	1.0	3
33	Stability Evaluation of the Dynamic Signature Partitions Over Time. Lecture Notes in Computer Science, 2017, , 733-746.	1.0	3
34	Interpretability of Fuzzy Systems Designed in the Process of Evolutionary Learning. Studies in Computational Intelligence, 2017, , 91-130.	0.7	0
35	Case Study: Interpretability of Fuzzy Systems Applied to Identity Verification. Studies in Computational Intelligence, 2017, , 163-189.	0.7	0
36	Interpretability of Fuzzy Systems Designed in the Process of Gradient Learning. Studies in Computational Intelligence, 2017, , 61-90.	0.7	0

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37	Hybrid Initialization in the Process of Evolutionary Learning. Lecture Notes in Computer Science, 2017, , 380-393.	1.0	3
38	A Method for Nonlinear Fuzzy Modelling Using Population Based Algorithm with Flexibly Selectable Operators. Lecture Notes in Computer Science, 2017, , 263-278.	1.0	2
39	A new approach to nonlinear modelling of dynamic systems based on fuzzy rules. International Journal of Applied Mathematics and Computer Science, 2016, 26, 603-621.	1.5	38
40	New Approach for Interpretability of Neuro-Fuzzy Systems with Parametrized Triangular Norms. Lecture Notes in Computer Science, 2016, , 248-265.	1.0	2
41	New Approach for Nonlinear Modelling Based on Online Designing of the Fuzzy Rule Base. Lecture Notes in Computer Science, 2016, , 230-247.	1.0	1
42	A New Approach to the Dynamic Signature Verification Aimed at Minimizing the Number of Global Features. Lecture Notes in Computer Science, 2016, , 218-231.	1.0	21
43	New Method for Fuzzy Nonlinear Modelling Based on Genetic Programming. Lecture Notes in Computer Science, 2016, , 432-449.	1.0	3
44	A new algorithm for identity verification based on the analysis of a handwritten dynamic signature. Applied Soft Computing Journal, 2016, 43, 47-56.	4.1	88
45	New Algorithm for On-line Signature Verification Using Characteristic Hybrid Partitions. Advances in Intelligent Systems and Computing, 2016, , 147-157.	0.5	24
46	Nonlinear Pattern Classification Using Fuzzy System and Hybrid Genetic-Imperialist Algorithm. Advances in Intelligent Systems and Computing, 2016, , 159-171.	0.5	2
47	An Idea of the Dynamic Signature Verification Based on a Hybrid Approach. Lecture Notes in Computer Science, 2016, , 232-246.	1.0	26
48	A New Method for the Dynamic Signature Verification Based on the Stable Partitions of the Signature. Lecture Notes in Computer Science, 2015, , 161-174.	1.0	18
49	New Fast Algorithm for the Dynamic Signature Verification Using Global Features Values. Lecture Notes in Computer Science, 2015, , 175-188.	1.0	40
50	A New Interpretability Criteria for Neuro-Fuzzy Systems for Nonlinear Classification. Lecture Notes in Computer Science, 2015, , 448-468.	1.0	12
51	The learning of neuro-fuzzy approximator with fuzzy rough sets in case of missing features. , 2014, , .		9
52	On-line signature verification using vertical signature partitioning. Expert Systems With Applications, 2014, 41, 4170-4180.	4.4	88
53	New Method for Dynamic Signature Verification Using Hybrid Partitioning. Lecture Notes in Computer Science, 2014, , 216-230.	1.0	35
54	New Method for Design of Fuzzy Systems for Nonlinear Modelling Using Different Criteria of Interpretability. Lecture Notes in Computer Science, 2014, , 217-232.	1.0	40

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55	New method for the on-line signature verification based on horizontal partitioning. Pattern Recognition, 2014, 47, 2652-2661.	5.1	82
56	New Method for Dynamic Signature Verification Based on Global Features. Lecture Notes in Computer Science, 2014, , 231-245.	1.0	39
57	New Algorithm for Evolutionary Selection of the Dynamic Signature Global Features. Lecture Notes in Computer Science, 2013, , 113-121.	1.0	37
58	A New Approach to Designing Interpretable Models of Dynamic Systems. Lecture Notes in Computer Science, 2013, , 523-534.	1.0	44
59	On design of flexible neuro-fuzzy systems for nonlinear modelling. International Journal of General Systems, 2013, 42, 706-720.	1.2	69
60	Novel Algorithm for the On-Line Signature Verification Using Selected Discretization Points Groups. Lecture Notes in Computer Science, 2013, , 493-502.	1.0	40
61	New Approach for the On-Line Signature Verification Based on Method of Horizontal Partitioning. Lecture Notes in Computer Science, 2013, , 342-350.	1.0	36
62	Some Aspects of Evolutionary Designing Optimal Controllers. Lecture Notes in Computer Science, 2013, , 91-100.	1.0	42
63	A New Method for Designing and Complexity Reduction of Neuro-fuzzy Systems for Nonlinear Modelling. Lecture Notes in Computer Science, 2013, , 329-344.	1.0	36
64	Novel Algorithm for the On-Line Signature Verification. Lecture Notes in Computer Science, 2012, , 362-367.	1.0	40
65	A New Method to Construct of Interpretable Models of Dynamic Systems. Lecture Notes in Computer Science, 2012, , 697-705.	1.0	42
66	On Designing of Flexible Neuro-Fuzzy Systems for Nonlinear Modelling. Lecture Notes in Computer Science, 2011, , 147-154.	1.0	1
67	On Automatic Design of Neuro-fuzzy Systems. Lecture Notes in Computer Science, 2010, , 43-48.	1.0	0
68	On evolutionary designing and learning of flexible neuro-fuzzy structures for nonlinear classification. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1659-e1672.	0.6	57
69	A New Method for Design and Reduction of Neuro-Fuzzy Classification Systems. IEEE Transactions on Neural Networks, 2009, 20, 701-714.	4.8	61
70	A New Method for Complexity Reduction of Neuro-fuzzy Systems with Application to Differential Stroke Diagnosis. Lecture Notes in Computer Science, 2009, , 435-444.	1.0	2