Zuzana KomÃ-nkovÃ¡ OplatkovÃ¡

List of Publications by Year
in descending order

140 papers	865 citations	759190 12 h-index	677123 22 g-index
150 all docs	150 docs citations	150 times ranked	553 citing authors

#	ARTICLE	IF	CITATIONS
1	On the behavior and performance of chaos driven PSO algorithm with inertia weight. Computers and Mathematics With Applications, 2013, 66, 122-134.	2.7	119
2	Utilization of SOMA and differential evolution for robust stabilization of chaotic Logistic equation. Computers and Mathematics With Applications, 2010, 60, 1026-1037.	2.7	49
3	Improving CT Image Tumor Segmentation Through Deep Supervision and Attentional Gates. Frontiers in Robotics and AI, 2020, 7, 106.	3.2	35
4	Synthesis of feedback controller for three selected chaotic systems by means of evolutionary techniques: Analytic programming. Mathematical and Computer Modelling, 2013, 57, 57-67.	2.0	31
5	Investigation on artificial ant using analytic programming. , 2006, , .		28
6	Analytic programming in the task of evolutionary synthesis of a controller for high order oscillations stabilization of discrete chaotic systems. Computers and Mathematics With Applications, 2013, 66, 177-189.	2.7	28
7	Selecting Start-Up Businesses in a Public Venture Capital Financing using Fuzzy PROMETHEE. Procedia Computer Science, 2015, 60, 63-72.	2.0	24
8	Fuzzy Vikor Approach: Evaluating Quality of Internet Health Information. , 2014, , .		22
9	Model for Assessing Quality of Online Health Information: A Fuzzy VIKOR Based Method. Journal of Multi-Criteria Decision Analysis, 2016, 23, 49-62.	1.9	22
10	Preliminary investigation on relations between complex networks and evolutionary algorithms dynamics. , 2010, , .		20
11	Comparative State-of-the-Art Survey of Classical Fuzzy Set and Intuitionistic Fuzzy Sets in Multi-Criteria Decision Making. International Journal of Fuzzy Systems, 2017, 19, 726-738.	4.0	19
12	Investigation on the Differential Evolution driven by selected six chaotic systems in the task of reactor geometry optimization. , 2013, , .		17
13	Efficient algorithms for mining clickstream patterns using pseudo-IDLists. Future Generation Computer Systems, 2020, 107, 18-30.	7.5	17
14	Tracking progress of African Peer Review Mechanism (APRM) using fuzzy comprehensive evaluation method. Kybernetes, 2014, 43, 1193-1208.	2.2	15
15	A review of social media posts from UniCredit bank in Europe. , 2019, , .		15
16	An efficient parallel algorithm for mining weighted clickstream patterns. Information Sciences, 2022, 582, 349-368.	6.9	14
17	Performance of Chaos Driven Differential Evolution on Shifted Benchmark Functions Set. Advances in Intelligent Systems and Computing, 2014, , 41-50.	0.6	13
18	Deductions from a Sub-Saharan African Bankâ€™s Tweets: A sentiment analysis approach. Cogent Economics and Finance, 2020, 8, 1776006.	2.1	12

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19	Steganography Detection by Means of Neural Networks. , 2008, , .		11
20	MEASURING PROGRESS OF THE MILLENNIUM DEVELOPMENT GOALS: A FUZZY COMPREHENSIVE EVALUATION APPROACH. Applied Artificial Intelligence, 2014, 28, 1-15.	3.2	11
21	On the parameter settings for the chaotic dynamics embedded differential evolution. , 2015, , .		11
22	A fuzzy TOPSIS framework for selecting fragile states for support facility. Quality and Quantity, 2015, 49, 1835-1855.	3.7	11
23	Detection of mobile botnets using neural networks. , 2016, , .		11
24	Optimization of the Batch Reactor by Means of Chaos Driven Differential Evolution. Advances in Intelligent Systems and Computing, 2013, , 93-102.	0.6	11
25	Investigation on Evolutionary Synthesis of Movement Commands. Modelling and Simulation in Engineering, 2009, 2009, 1-12.	0.7	10
26	Assessing Commercial Viability of Technology Start-up Businesses in a Government Venture Capital under Intuitionistic Fuzzy Environment. International Journal of Fuzzy Systems, 2017, 19, 400-413.	4.0	10
27	Evolutionary Design of Chaos Control in 1D. Studies in Computational Intelligence, 2010, , 165-190.	0.9	10
28	Fire Detection in Video Stream by Using Simple Artificial Neural Network. Mendel, 2018, 24, .	1.0	10
29	Optimal trajectory of robots using symbolic regres.... , 2005, , .		9
30	Comparison Of Modern Clustering Algorithms For Two-Dimensional Data. , 2014, , .		9
31	Extended Initial Study on the Performance of Enhanced PSO Algorithm with Lozi Chaotic Map. Advances in Intelligent Systems and Computing, 2013, , 167-177.	0.6	8
32	Detection of Steganography Inserted by OutGuess and Steghide by Means of Neural Networks. , 2009, , .		7
33	SYNTHESIS OF FEEDBACK CONTROLLER FOR CHAOTIC SYSTEMS BY MEANS OF EVOLUTIONARY TECHNIQUES. , 2011, , .		7
34	Study on the Time Development of Complex Network for Metaheuristic. Advances in Intelligent Systems and Computing, 2016, , 525-533.	0.6	7
35	Emotion Recognition using AutoEncoders and Convolutional Neural Networks. Mendel, 2018, 24, 113-120.	1.0	7
36	Using Artificial Neural Network For The Kick Techniques Classification Ã¢Â€Â“ An Initial Study. , 2014, , .		7

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37	Comparison between Neural Network Steganalysis and Linear Classification Method Stegdetect. , 2010, , .		6
38	Towards Human Cell Simulation. Lecture Notes in Computer Science, 2019, , 221-249.	1.3	6
39	Enterprise Competitive Analysis and Consumer Sentiments on Social Media - Insights from Telecommunication Companies. , 2014, , .		6
40	Differential Evolution and Deterministic Chaotic Series: A Detailed Study. Mendel, 2018, 24, .	1.0	6
41	Synthesis of Control Law for Chaotic Logistic Equation - Preliminary Study. , 2010, , .		5
42	Evolutionary optimisation of HÃ©non map control: a black box approach. International Journal of Operational Research, 2012, 13, 129.	0.2	5
43	Chaos Enhanced Differential Evolution in the Task of Evolutionary Control of Selected Set of Discrete Chaotic Systems. Scientific World Journal, The, 2014, 2014, 1-12.	2.1	5
44	Utilization of analytic programming for the evolutionary synthesis of the robust multi-chaotic controller for selected sets of discrete chaotic systems. Soft Computing, 2014, 18, 651-668.	3.6	5
45	Intelligent Systems in Cybernetics and Automation Theory. Advances in Intelligent Systems and Computing, 2015, , .	0.6	5
46	A performance comparison of two emotion-recognition implementations using OpenCV and Cognitive Services API. MATEC Web of Conferences, 2017, 125, 02067.	0.2	5
47	Hybridization of Multi-chaotic Dynamics and Adaptive Control Parameter Adjusting jDE Strategy. Advances in Intelligent Systems and Computing, 2017, , 77-87.	0.6	5
48	Simulation Study Of The CSTR Reactor For Control Purposes. , 2006, , .		5
49	Analysis Of Direct Punch Force In Professional Defence. , 2015, , .		5
50	Analytical Programming With Extended Individuals. , 2016, , .		5
51	Differential Evolution and Chaotic Series. , 2018, , .		4
52	Using Fuzzy PROMETHEE to Select Countries for Developmental Aid. Studies in Computational Intelligence, 2016, , 109-132.	0.9	4
53	Application of Analytic Programming for Evolutionary Synthesis of Control Lawâ€"Introduction of Two Approaches. Studies in Computational Intelligence, 2012, , 253-268.	0.9	4
54	Soft Computing-Based Information Security. Advances in Information Security, Privacy, and Ethics Book Series, 0, , 29-60.	0.5	4

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55	Evolutionary Synthesis Of Control Law For Higher Periodic Orbits Of Chaotic Logistic Equation. , 2011, , .		4
56	Steganography content detection by means of feedforward neural network. International Journal of Innovative Computing and Applications, 2013, 5, 184.	0.2	3
57	Modern Trends and Techniques in Computer Science. Advances in Intelligent Systems and Computing, 2014, , .	0.6	3
58	A time performance comparison of particle swarm optimization in mobile devices. MATEC Web of Conferences, 2016, 76, 04029.	0.2	3
59	Evolutionary Synthesis of Control Rules by Means of Analytic Programming for the Purpose of High Order Oscillations Stabilization of Evolutionary Synthesized Chaotic System. Advances in Intelligent Systems and Computing, 2013, , 191-201.	0.6	3
60	Randomization and Complex Networks for Meta-Heuristic Algorithms. Emergence, Complexity and Computation, 2018, , 177-194.	0.3	3
61	Utilization of the Discrete Chaotic Systems as the Pseudo Random Number Generators. Advances in Intelligent Systems and Computing, 2014, , 155-164.	0.6	3
62	Sequential Pattern Mining Using IDLists. Lecture Notes in Computer Science, 2020, , 341-353.	1.3	3
63	An efficient method for mining sequential patterns with indices. Knowledge-Based Systems, 2022, 239, 107946.	7.1	3
64	Robotic Automation of Software Testing From a Machine Learning Viewpoint. Mendel, 2021, 27, 68-73.	1.0	3
65	Symbolic regression and evolutionary computation in setting an optimal trajectory for a robot. , 2007, , .		2
66	Santa Fe Trail for Artificial Ant with Analytic Programming and Three Evolutionary Algorithms. , 2007, , .		2
67	Comparison of Differential Evolution and SOMA in the task of chaos control optimization - Extended study: Complex target CF. , 2009, , .		2
68	Chaos driven Differential Evolution in the task of chaos control optimization. , 2010, , .		2
69	PERFORMANCE COMPARISON OF DIFFERENTIAL EVOLUTION AND SOMA ON CHAOS CONTROL OPTIMIZATION PROBLEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230025.	1.7	2
70	Synthesis of feedback control law for stabilization of chaotic system oscillations by means of analytic programming - Preliminary study. , 2012, , .		2
71	GAME: GPU accelerated multipurpose evolutionary algorithm library. International Journal of Innovative Computing and Applications, 2013, 5, 163.	0.2	2
72	An Initial Study on the New Adaptive Approach for Multi-chaotic Differential Evolution. Advances in Intelligent Systems and Computing, 2015, , 355-362.	0.6	2

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73	Elliott waves classification by means of neural and pseudo neural networks. Soft Computing, 2018, 22, 1803-1813.	3.6	2
74	A Novel Approach for Mining Closed Clickstream Patterns. Cybernetics and Systems, 2021, 52, 328-349.	2.5	2
75	A Brief Survey on the Chaotic Systems as the Pseudo Random Number Generators. Emergence, Complexity and Computation, 2015, , 205-214.	0.3	2
76	Evolutionary Control of Chaotic Lozi Map by Means of Chaos Driven Differential Evolution. Lecture Notes in Electrical Engineering, 2014, , 371-380.	0.4	2
77	Application of Evolutionary Techniques for Optimization of Chaos Control â€“ Introduction of Three Approaches. Intelligent Systems Reference Library, 2013, , 801-820.	1.2	2
78	MIMO Pseudo Neural Networks for Iris Data Classification. Advances in Intelligent Systems and Computing, 2014, , 165-176.	0.6	2
79	Dogface Detection and Localization of Dogfaceâ€™s Landmarks. Advances in Intelligent Systems and Computing, 2019, , 465-476.	0.6	2
80	Dog Face Detection Using YOLO Network. Mendel, 2020, 26, 17-22.	1.0	2
81	Evolutionary Scanning and Neural Network Optimization. , 2008, , .		1
82	Investigation on Evolutionary Chaos Controller Synthesis for Hènon Map Stabilization. AIP Conference Proceedings, 2011, , .	0.4	1
83	Controlling complexity. , 2012, , .		1
84	Influence of chaotic dynamics on the performance of evolutionary algorithms - An initial study. , 2012, , .		1
85	Optimization of Artificial Neural Network Structure in the Case of Steganalysis. Intelligent Systems Reference Library, 2013, , 821-843.	1.2	1
86	Ranking fragile states for support facility: A fuzzy topsis approach. , 2014, , .		1
87	Patterns and Trends in the Concept of Green Economy: A Text Mining Approach. Advances in Intelligent Systems and Computing, 2014, , 143-154.	0.6	1
88	Selecting countries for developmental aid programs using fuzzy PROMETHEE. , 2015, , .		1
89	Hybridization of Adaptivity and Chaotic Dynamics for Differential Evolution. Advances in Intelligent Systems and Computing, 2015, , 149-158.	0.6	1
90	SPAM Detection: NaÃ¯ve Bayesian Classification and RPN Expression-Based LGP Approaches Compared. Advances in Intelligent Systems and Computing, 2016, , 399-411.	0.6	1

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91	Utilization of Motion Animation for Analysis of Basic Self-defense Techniques. Advances in Intelligent Systems and Computing, 2016, , 341-352.	0.6	1
92	The coordinate system of the eye in cataract surgery: Performance comparison of the circle Hough transform and Daugmanâ€™s algorithm. AIP Conference Proceedings, 2017, , .	0.4	1
93	Performance comparison of differential evolution driving analytic programming for regression. , 2017, , .		1
94	Mining Clickstream Patterns Using IDLists. , 2019, , .		1
95	Analytic Programmingâ€"A New Tool for Synthesis of Controller for Discrete Chaotic Lozi Map. Lecture Notes in Electrical Engineering, 2014, , 137-151.	0.4	1
96	Utilization Of Analytic Programming For The Stabilization Of High Order Oscillations Of Chaotic HÃ©non Map. , 2012, , .		1
97	Iris Data Classification By Means Of Pseudo Neural Networks Based On Evolutionary Symbolic Regression. , 2013, , .		1
98	Maximizing Vector Distances for Purpose of Searchingâ€"A Study of Differential Evolution Suitability. Advances in Intelligent Systems and Computing, 2014, , 419-428.	0.6	1
99	Control Law and Pseudo Neural Networks Synthesized by Evolutionary Symbolic Regression Technique. Simulation Foundations, Methods and Applications, 2016, , 91-113.	0.1	1
100	A Review On The Simulation of Social Networks Inside Heuristic Algorithms. , 2018, , .		1
101	Comparison of Three Novelty Approaches to Constants (Ks) Handling in Analytic Programming Powered by SHADE. Advances in Intelligent Systems and Computing, 2019, , 134-145.	0.6	1
102	Randomization of Individuals Selection in Differential Evolution. Advances in Intelligent Systems and Computing, 2019, , 180-191.	0.6	1
103	Consumer Insight on Driverless Automobile Technology Adoption via Twitter Data: A Sentiment Analytic Approach. IFIP Advances in Information and Communication Technology, 2020, , 463-473.	0.7	1
104	Evolutionary Synthesis of Complex Structures. , 2008, , .		0
105	Performance Comparison of Evolutionary Algorithms in the Task of Optimization of Chaos Control. , 2008, , .		0
106	Higher Dimensional Cost Function for Synthesis of Evolutionary Algorithms by means of Symbolic Regression. , 2008, , .		0
107	Evolutionary Synthesis and Control of Chaotic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 302-307.	0.4	0
108	Evolutionary Identification of Chaotic System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 308-315.	0.4	0

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109	ADVANCED TARGETING COST FUNCTION DESIGN FOR EVOLUTIONARY OPTIMIZATION OF CONTROL OF LOGISTIC EQUATION. , 2010, , .		0
110	Comparison of Two Cost Functions for Evolutionary Synthesis of Control Law for Higher Periodic Chaotic Logistic Equation. , 2011, , .		0
111	Multi-chaotic Differential Evolution: A Preliminary Study. Lecture Notes in Computer Science, 2014, , 416-427.	1.3	0
112	Maximizing vector distances using differential evolutionâ€"Relation to data redundancy. AIP Conference Proceedings, 2015, , .	0.4	0
113	Mathematical model of an integrated circuit cooling through cylindrical rods. ITM Web of Conferences, 2017, 9, 01013.	0.5	0
114	Differential Evolution and Analytic Programming in the case of Trigonometric Identities Discovery. , 2018, , .		0
115	Scouting of Whiteflies in Tomato Greenhouse Environment Using Deep Learning. Smart Innovation, Systems and Technologies, 2022, , 323-335.	0.6	0
116	Decision science: a multi-criteria decision framework for enhancing an electoral voting system. Systems Science and Control Engineering, 2021, 9, 556-569.	3.1	0
117	A Study of Direct and Indirect Encoding in Phenotype-Genotype Relationships. Lecture Notes in Computer Science, 2021, , 290-301.	1.3	0
118	Design Of Advanced Targeting Cost Function For Evolutionary Optimization Of Chaos Control. , 2009, , .		0
119	EPMAS: Evolutionary Programming Multi-Agent Systems. , 2010, , .		0
120	Steganalysis Of PQ Algorithm By Means Of Neural Networks. , 2011, , .		0
121	Optimization Of Neural Network Inputs By Feature Selection Methods. , 2011, , .		0
122	Evolutionary and Meta-evolutionary Approach for the Optimization of Chaos Control. Lecture Notes in Computer Science, 2012, , 350-358.	1.3	0
123	Utilization of Analytic Programming for Evolutionary Synthesis of the Robust Controller for Set of Chaotic Systems. Advances in Intelligent Systems and Computing, 2013, , 101-110.	0.6	0
124	Analytic Programming In The Task Of Evolutionary Synthesis Of The Robust Controller For Selected Discrete Chaotic Systems. , 2013, , .		0
125	On the Development of Complex Cost Function for the Evolutionary Chaos Control: A Brief Study. Emergence, Complexity and Computation, 2014, , 369-378.	0.3	0
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127	Multi-chaotic Differential Evolution: Determining the Switching Time. Advances in Intelligent Systems and Computing, 2014, , 99-110.	0.6	0
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130	Prediction Of Raw Material Batches For The Production Of Clinker By Means Of Artificial Neural Networks -Analysis Of Behaviour. , 2015, , .		0
131	On The Simulation Of Complex Chaotic Dynamics For Chaos Based Optimization. , 2016, , .		0
132	Emotion Recognition in Video with OpenCV and Cognitive Services API: A Comparison. Annals of DAAAM & Proceedings, 2017, , 1185-1190.	0.1	0
133	Analysis and Classification Tools for Automatic Process of Punches and Kicks Recognition. Advances in Computational Intelligence and Robotics Book Series, 2017, , 127-151.	0.4	0
134	Different Approaches For Constant Estimation In Analytic Programming. , 2017, , .		0
135	Pseudo Neural Networks Via Analytic Programming With Direct Coding Of Constant Estimation. , 2018, , .		0
136	On the Applicability of Random and the Best Solution Driven Metaheuristics for Analytic Programming and Time Series Regression. Advances in Intelligent Systems and Computing, 2019, , 489-498.	0.6	0
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138	Border Strategies Of The Bison Algorithm. , 2019, , .		0
139	Analytic Programming â€“ a Novel Tool for Synthesis of Controller for Chaotic Lozi Map. International Journal of Computers and Communications, 2021, 15, 50-55.	0.1	0
140	Chaos Driven Evolutionary Algorithm: a Novel Approach for Optimization. International Journal of Systems Applications Engineering & Development, 2022, 16, 21-25.	0.1	0