Krzysztof Krawiec

List of Publications by Year
in descending order

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153	3,064	361413	223800
papers	citations	20	46
		h-index	g-index

161	161	161	2122
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Climate Variability Indicesâ€"A Guided Tour. Geosciences (Switzerland), 2021, 11, 128.	2.2	7
2	Machine Learning Modeling of Climate Variability Impact on River Runoff. Water (Switzerland), 2021, 13, 1177.	2.7	7
3	The Impact of High-Energy Mining-Induced Tremor in a Fault Zone on Damage to Buildings. Energies, 2021, 14, 4112.	3.1	7
4	Neuromemetic Evolutionary Optimization. Lecture Notes in Computer Science, 2020, , 623-636.	1.3	0
5	Program synthesis as latent continuous optimization. , 2020, , .		4
6	Solving complex problems with coevolutionary algorithms. , 2020, , .		2
7	Semantic genetic programming. , 2020, , .		0
8	Synthesis of Constraints for Mathematical Programming With One-Class Genetic Programming. IEEE Transactions on Evolutionary Computation, 2019, 23, 117-129.	10.0	11
9	Stochastic program synthesis via recursion schemes. , 2019, , .		0
10	Solving symbolic regression problems with formal constraints. , 2019, , .		13
11	Comparison of MASW and seismic interferometry with use of ambient noise for estimation of S-wave velocity field in landslide subsurface. Acta Geophysica, 2019, 67, 1875-1883.	2.0	15
12	Semantic genetic programming. , 2019, , .		0
13	Solving complex problems with coevolutionary algorithms. , 2019, , .		3
14	3D S-wave velocity imaging of a subsurface disturbed by mining using ambient seismic noise. Engineering Geology, 2019, 251, 115-127.	6.3	18
15	Stochastic synthesis of recursive functions made easy with bananas, lenses, envelopes and barbed wire. Genetic Programming and Evolvable Machines, 2019, 20, 327-350.	2.2	2
16	Comparison analysis of numerically calculated slip surfaces with measured S-wave velocity field for Just-TÄ™goborze landslide in Carpathian flysch. E3S Web of Conferences, 2019, 133, 01003.	0.5	1
17	Detecting life signatures with RNA sequence similarity measures. Journal of Theoretical Biology, 2019, 463, 110-120.	1.7	5
18	Opening the Black Box: Alternative Search Drivers for Genetic Programming and Test-based Problems. Mendel, 2019, 23, 1-6.	1.0	1

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19	Learning to Play Othello With Deep Neural Networks. IEEE Transactions on Games, 2018, 10, 354-364.	1.4	12
20	Competent Geometric Semantic Genetic Programming for Symbolic Regression and Boolean Function Synthesis. Evolutionary Computation, 2018, 26, 177-212.	3.0	16
21	Comparison of the results of the seismic profiling and WAS-96/RMS seismoacoustic active method in an assessment of the impact of the overlying coal seam edge. E3S Web of Conferences, 2018, 66, 01011.	0.5	1
22	Recognition of gasogeodynamic zones in the rock mass using seismic tomography in Rudna copper ore mine. E3S Web of Conferences, 2018, 66, 01012.	0.5	0
23	Neuro-guided genetic programming. , 2018, , .		3
24	Neural estimation of interaction outcomes. , 2018, , .		3
25	Counterexample-Driven Genetic Programming: Heuristic Program Synthesis from Formal Specifications. Evolutionary Computation, 2018, 26, 441-469.	3.0	10
26	Exploiting Subprograms in Genetic Programming. Genetic and Evolutionary Computation, 2018, , 1-16.	1.0	0
27	Solving complex problems with coevolutionary algorithms. , 2018, , .		2
28	Metaheuristic Design Patterns. Advances in Business Information Systems and Analytics Book Series, 2018, , 1-36.	0.4	3
29	Counterexample-Driven Genetic Programming: Stochastic Synthesis of Provably Correct Programs. , 2018, , .		2
30	Online Discovery of Search Objectives for Test-Based Problems. Evolutionary Computation, 2017, 25, 375-406.	3.0	11
31	Automatic synthesis of constraints from examples using mixed integer linear programming. European Journal of Operational Research, 2017, 261, 1141-1157.	5.7	28
32	Evolutionary Program Sketching. Lecture Notes in Computer Science, 2017, , 3-18.	1.3	8
33	Polytypic Genetic Programming. Lecture Notes in Computer Science, 2017, , 66-81.	1.3	1
34	PSXO. , 2017, , .		2
35	Geometric semantic genetic programming for recursive boolean programs. , 2017, , .		3
36	Counterexample-driven genetic programming. , 2017, , .		17

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37	Discovery of search objectives in continuous domains. , 2017, , .		6
38	Solving complex problems with coevolutionary algorithms. , 2017, , .		2
39	Optical coherence microscopy as a novel, non-invasive method for the 4D live imaging of early mammalian embryos. Scientific Reports, 2017, 7, 4165.	3.3	42
40	Cerebellar Volume in Children With Attention-Deficit Hyperactivity Disorder (ADHD). Journal of Child Neurology, 2017, 32, 215-221.	1.4	39
41	Exploring complex and big data. International Journal of Applied Mathematics and Computer Science, 2017, 27, 669-679.	1.5	25
42	Comparison of an empirical S-wave velocity model and a calculated stress-strain model for a rock mass disturbed by mining. E3S Web of Conferences, 2017, 24, 03001.	0.5	1
43	Synthesis of Mathematical Programming Constraints with Genetic Programming. Lecture Notes in Computer Science, 2017, , 178-193.	1.3	4
44	Adaptive Test Selection for Factorization-based Surrogate Fitness in Genetic Programming. Foundations of Computing and Decision Sciences, 2017, 42, 339-358.	1.2	2
45	Influence of initial water saturation in earthen levees on results of numerical modelling of infiltration processes. Computer Science, 2017, 18, 415.	0.6	1
46	Evolutionary Feature Selection and Construction. , 2017, , 447-451.		0
47	Analysis of the filtration processes in soil embankment based on numerical modelling and temperature measurements. E3S Web of Conferences, 2016, 7, 03018.	0.5	3
48	Simultaneous Synthesis of Multiple Functions using Genetic Programming with Scaffolding. , 2016, , .		3
49	Semantic Genetic Programming. , 2016, , .		1
50	Online Discovery of Search Objectives for Test-based Problems. , 2016, , .		7
51	Numerical modelling of levee stability based on coupled mechanical, thermal and hydrogeological processes. E3S Web of Conferences, 2016, 7, 03021.	0.5	3
52	Progress properties and fitness bounds for geometric semantic search operators. Genetic Programming and Evolvable Machines, 2016, 17, 5-23.	2.2	10
53	The performance profile: A multiâ€“criteria performance evaluation method for testâ€“based problems. International Journal of Applied Mathematics and Computer Science, 2016, 26, 215-229.	1.5	4
54	Solving Complex Problems with Coevolutionary Algorithms. , 2016, , .		5

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55	Non-negative Matrix Factorization for Unsupervised Derivation of Search Objectives in Genetic Programming. , 2016, , .		13
56	Surrogate Fitness via Factorization of Interaction Matrix. Lecture Notes in Computer Science, 2016, , 68-82.	1.3	7
57	Segmenting Retinal Blood Vessels With<?Pub _newline ?>Deep Neural Networks. IEEE Transactions on Medical Imaging, 2016, 35, 2369-2380.	8.9	713
58	Behavioral Program Synthesis with Genetic Programming. Studies in Computational Intelligence, 2016, , .	0.9	43
59	Evolutionary Feature Selection and Construction. , 2016, , 1-5.		1
60	Behavioral Program Synthesis: Insights and Prospects. Genetic and Evolutionary Computation, 2016, , 169-183.	1.0	7
61	Experimental assessment of search drivers. Studies in Computational Intelligence, 2016, , 119-132.	0.9	0
62	Program synthesis. Studies in Computational Intelligence, 2016, , 1-19.	0.9	2
63	Semantic Genetic Programming. Studies in Computational Intelligence, 2016, , 55-66.	0.9	1
64	Implications of the behavioral perspective. Studies in Computational Intelligence, 2016, , 133-141.	0.9	0
65	Behavioral assessment of test difficulty. Studies in Computational Intelligence, 2016, , 43-54.	0.9	0
66	Search drivers. Studies in Computational Intelligence, 2016, , 97-118.	0.9	0
67	Synthesizing programs with consistent execution traces. Studies in Computational Intelligence, 2016, , 67-75.	0.9	0
68	Review and comparative analysis of geometric semantic crossovers. Genetic Programming and Evolvable Machines, 2015, 16, 351-386.	2.2	31
69	Random Set Method Application to Flood Embankment Stability Modelling. Procedia Computer Science, 2015, 51, 2668-2677.	2.0	4
70	Comparison of Semantic-aware Selection Methods in Genetic Programming. , 2015, , .		27
71	Semantic Backpropagation for Designing Search Operators in Genetic Programming. IEEE Transactions on Evolutionary Computation, 2015, 19, 326-340.	10.0	67
72	OCT angiography by absolute intensity difference applied to normal and diseased human retinas. Biomedical Optics Express, 2015, 6, 2738.	2.9	29

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73	High-Dimensional Function Approximation for Knowledge-Free Reinforcement Learning. , 2015, , .		9
74	Solving Complex Problems with Coevolutionary Algorithms. , 2015, , .		0
75	Genetic Programming for Estimation of Heat Flux between the Atmosphere and Sea Ice in Polar Regions. , 2015, , .		2
76	An Integrated Approach to Stage 1 Breast Cancer Detection. , 2015, , .		2
77	Semantic Genetic Programming. , 2015, , .		3
78	Automatic Derivation of Search Objectives for Test-Based Genetic Programming. Lecture Notes in Computer Science, 2015, , 53-65.	1.3	26
79	The Role of Behavioral Diversity and Difficulty of Opponents in Coevolving Game-Playing Agents. Lecture Notes in Computer Science, 2015, , 394-405.	1.3	2
80	Genetic Programming with Alternative Search Drivers for Detection of Retinal Blood Vessels. Lecture Notes in Computer Science, 2015, , 554-566.	1.3	4
81	Image Classification with Genetic Programming: Building a Stage 1 Computer Aided Detector for Breast Cancer. , 2015, , 245-287.		10
82	Multiple regression genetic programming. , 2014, , .		80
83	Behavioral programming. , 2014, , .		41
84	Metaheuristic design pattern. , 2014, , .		3
85	Genetic programming: where meaning emerges from program code. Genetic Programming and Evolvable Machines, 2014, 15, 75-77.	2.2	9
86	Cross-task code reuse in genetic programming applied to visual learning. International Journal of Applied Mathematics and Computer Science, 2014, 24, 183-197.	1.5	9
87	Improving Genetic Programming with Behavioral Consistency Measure. Lecture Notes in Computer Science, 2014, , 434-443.	1.3	3
88	Discovery of Implicit Objectives by Compression of Interaction Matrix in Test-Based Problems. Lecture Notes in Computer Science, 2014, , 611-620.	1.3	12
89	Building a Stage 1 Computer Aided Detector for Breast Cancer Using Genetic Programming. Lecture Notes in Computer Science, 2014, , 162-173.	1.3	9
90	Hindcasting global temperature by evolutionary computation. Acta Geophysica, 2013, 61, 732-751.	2.0	6

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91	On Scalability, Generalization, and Hybridization of Coevolutionary Learning: A Case Study for Othello. IEEE Transactions on Games, 2013, 5, 214-226.	1.4	21
92	Locally geometric semantic crossover: a study on the roles of semantics and homology in recombination operators. Genetic Programming and Evolvable Machines, 2013, 14, 31-63.	2.2	39
93	Shaping fitness function for evolutionary learning of game strategies. , 2013, , .		14
94	Approximating geometric crossover by semantic backpropagation. , 2013, , .		26
95	Improving coevolution by random sampling. , 2013, , .		14
96	Pattern-guided genetic programming. , 2013, , .		21
97	Running programs backwards. , 2013, , .		11
98	Implicit Fitness Sharing for Evolutionary Synthesis of License Plate Detectors. Lecture Notes in Computer Science, 2013, , 376-386.	1.3	5
99	Visualization of 3D retinal microcapillary network using OCT. Acta Ophthalmologica, 2013, 91, 0-0.	1.1	1
100	On relationships between semantic diversity, complexity and modularity of programming tasks. , 2012, , .		6
101	Genetic programming needs better benchmarks. , 2012, , .		197
102	Locally geometric semantic crossover. , 2012, , .		9
103	Modeling global temperature changes with genetic programming. Computers and Mathematics With Applications, 2012, 64, 3717-3728.	2.7	31
104	Medial Crossovers for Genetic Programming. Lecture Notes in Computer Science, 2012, , 61-72.	1.3	20
105	Geometric Semantic Genetic Programming. Lecture Notes in Computer Science, 2012, , 21-31.	1.3	233
106	Quantitative Analysis of Locally Geometric Semantic Crossover. Lecture Notes in Computer Science, 2012, , 397-406.	1.3	6
107	Autonomous Shaping via Coevolutionary Selection of Training Experience. Lecture Notes in Computer Science, 2012, , 215-224.	1.3	0
108	Evolving small-board Go players using coevolutionary temporal difference learning with archives. International Journal of Applied Mathematics and Computer Science, 2011, 21, 717-731.	1.5	11

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109	Learning n-tuple networks for othello by coevolutionary gradient search. , 2011, , .		22
110	How many dimensions in co-optimization. , 2011, , .		6
111	Formal Analysis, Hardness, and Algorithms for Extracting Internal Structure of Test-Based Problems. Evolutionary Computation, 2011, 19, 639-671.	3.0	20
112	Semantically embedded genetic programming. , 2011, , .		2
113	Evolutionary Tuning of Compound Image Analysis Systems for Effective License Plate Recognition. Lecture Notes in Computer Science, 2011, , 203-212.	1.3	1
114	Learnable Embeddings of Program Spaces. Lecture Notes in Computer Science, 2011, , 166-177.	1.3	2
115	Coordinate System Archive for coevolution. , 2010, , .		9
116	Evolving cascades of voting feature detectors for vehicle detection in satellite imagery. , 2010, , .		0
117	Coevolutionary Temporal Difference Learning for small-board Go. , 2010, , .		1
118	Automatic generation and exploitation of related problems in genetic programming. , 2010, , .		13
119	Using Co-solvability to Model and Exploit Synergetic Effects in Evolution. , 2010, , 492-501.		6
120	Formal analysis and algorithms for extracting coordinate systems of games. , 2009, , .		1
121	Approximating geometric crossover in semantic space. , 2009, , .		70
122	Functional modularity for genetic programming. , 2009, , .		10
123	Coevolutionary Temporal Difference Learning for Othello. , 2009, , .		14
124	Evolving Teams of Cooperating Agents for Real-Time Strategy Game. Lecture Notes in Computer Science, 2009, , 333-342.	1.3	6
125	Genetic Programming for Generative Learning and Recognition of Hand-Drawn Shapes. Studies in Computational Intelligence, 2009, , 73-90.	0.9	0
126	Evolving strategy for a probabilistic game of imperfect information using genetic programming. Genetic Programming and Evolvable Machines, 2008, 9, 281-294.	2.2	20

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127	Multitask Visual Learning Using Genetic Programming. Evolutionary Computation, 2008, 16, 439-459.	3.0	13
128	Fitnessless coevolution. , 2008, , .		9
129	Potential fitness for genetic programming. , 2008, , .		1
130	Winning Ant Wars: Evolving a Human-Competitive Game Strategy Using Fitnessless Selection. Lecture Notes in Computer Science, 2008, , 13-24.	1.3	7
131	Overview of Object Detection and Image Analysis by Means of Genetic Programming Techniques. , 2007, , .		18
132	Hybrid coevolutionary algorithms vs. SVM algorithms. , 2007, , .		4
133	On the number of subpopulations in coevolutionary computation. , 2007, , .		0
134	Genetic programming for cross-task knowledge sharing. , 2007, , .		5
135	Knowledge reuse in genetic programming applied to visual learning. , 2007, , .		10
136	Visual Learning by Evolutionary and Coevolutionary Feature Synthesis. IEEE Transactions on Evolutionary Computation, 2007, 11, 635-650.	10.0	61
137	Generative learning of visual concepts using multiobjective genetic programming. Pattern Recognition Letters, 2007, 28, 2385-2400.	4.2	21
138	Learning and Recognition of Hand-Drawn Shapes Using Generative Genetic Programming. , 2007, , 281-290.		6
139	Learning High-Level Visual Concepts Using Attributed Primitives and Genetic Programming. Lecture Notes in Computer Science, 2006, , 515-519.	1.3	10
140	Genetic Graph Programming for Object Detection. Lecture Notes in Computer Science, 2006, , 804-813.	1.3	0
141	Visual Learning by Coevolutionary Feature Synthesis. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 409-425.	5.0	87
142	Coevolutionary feature construction for transformation of representation of machine learners. , 2004, , 139-150.		1
143	Coevolutionary Computation for Synthesis of Recognition Systems. , 2003, , .		2
144	<title>Coevolving feature extraction agents for target recognition in SAR images</title>. , 2003, , .		0

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145	Coevolution and Linear Genetic Programming for Visual Learning. Lecture Notes in Computer Science, 2003, , 332-343.	1.3	14
146	Coevolutionary Feature Learning for Object Recognition. , 2003, , 224-238.		1
147	Title is missing!. Genetic Programming and Evolvable Machines, 2002, 3, 329-343.	2.2	141
148	Genetic Programming with Local Improvement for Visual Learning from Examples. Lecture Notes in Computer Science, 2001, , 209-216.	1.3	6
149	On the Use of Pairwise Comparison of Hypotheses in Evolutionary Learning Applied to Learning from Visual Examples. Lecture Notes in Computer Science, 2001, , 307-321.	1.3	4
150	Evolutionary weighting of image features for diagnosing of CNS tumors. Artificial Intelligence in Medicine, 2000, 19, 25-38.	6.5	33
151	Pedagogical Method for Extraction of Symbolic Knowledge. Lecture Notes in Computer Science, 1998, , 436-443.	1.3	2
152	ROUGH SET REDUCTION OF ATTRIBUTES AND THEIR DOMAINS FOR NEURAL NETWORKS. Computational Intelligence, 1995, 11, 339-347.	3.2	172
153	Extracting fuzzy symbolic representation from artificial neural networks. , 0, , .		1