Aleksander Byrski

List of Publications by Year
in descending order

108 papers	657 citations	759233 12 h-index	752698 20 g-index
114 all docs	114 docs citations	114 times ranked	389 citing authors

#	Article	IF	Citations
1	Evolutionary multi-agent systems. Knowledge Engineering Review, 2015, 30, 171-186.	2.6	73
2	Hierarchical genetic-based grid scheduling with energy optimization. Cluster Computing, 2013, 16, 591-609.	5.0	34
3	Computing agents for decision support systems. Future Generation Computer Systems, 2014, 37, 390-400.	7.5	26
4	Massively concurrent agent-based evolutionary computing. Journal of Computational Science, 2015, 11, 153-162.	2.9	20
5	Agent-Based Model and Computing Environment Facilitating the Development of Distributed Computational Intelligence Systems. Lecture Notes in Computer Science, 2009, , 865-874.	1.3	20
6	Agent-Based Evolutionary and Immunological Optimization. Lecture Notes in Computer Science, 2007, , 928-935.	1.3	19
7	Formal model for agent-based asynchronous evolutionary computation. , 2009, , .		17
8	Asymptotic guarantee of success for multi-agent memetic systems. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 257-278.	0.8	17
9	Socio-cognitively inspired ant colony optimization. Journal of Computational Science, 2017, 21, 397-406.	2.9	17
10	Desynchronization in distributed Ant Colony Optimization in HPC environment. Future Generation Computer Systems, 2020, 109, 125-133.	7.5	17
11	Immunological Selection Mechanism in Agent-Based Evolutionary Computation. , 2005, , 411-415.		15
12	Stochastic Model of Evolutionary and Immunological Multi-Agent Systems: Parallel Execution of Local Actions. Fundamenta Informaticae, 2009, 95, 325-348.	0.4	14
13	An agent-based model of hierarchic genetic search. Computers and Mathematics With Applications, 2012, 64, 3763-3776.	2.7	14
14	Stochastic Model of Evolutionary and Immunological Multi-Agent Systems: Mutually Exclusive Actions. Fundamenta Informaticae, 2009, 95, 263-285.	0.4	13
15	Functional Integrity of Multi-agent Computational System Supported by Component-Based Implementation. Lecture Notes in Computer Science, 2009, , 82-91.	1.3	13
16	Agent-Based Simulation in AgE Framework. Studies in Computational Intelligence, 2012, , 55-83.	0.9	13
17	Highly scalable Erlang framework for agent-based metaheuristic computing. Journal of Computational Science, 2016, 17, 234-248.	2.9	12
18	Distributed ant colony optimization based on actor model. Parallel Computing, 2019, 90, 102573.	2.1	12

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19	The island model as a Markov dynamic system. International Journal of Applied Mathematics and Computer Science, 2012, 22, 971-984.	1.5	12
20	Agent-based computing parameters tuning. Computer Science, 2013, 14, 491.	0.6	12
21	Agent-Based Immunological Intrusion Detection System for Mobile Ad-Hoc Networks. Lecture Notes in Computer Science, 2008, , 584-593.	1.3	11
22	Evolutionary Multi-Agent Systems. Studies in Computational Intelligence, 2017, , .	0.9	11
23	Immune-Based Optimization of Predicting Neural Networks. Lecture Notes in Computer Science, 2005, , 703-710.	1.3	10
24	Multi-pheromone ant Colony Optimization for Socio-cognitive Simulation Purposes. Procedia Computer Science, 2015, 51, 954-963.	2.0	10
25	Leveraging rapid simulation and analysis of large urban road systems on HPC. Transportation Research Part C: Emerging Technologies, 2018, 87, 46-57.	7.6	10
26	Emerging Cooperation in N-Person Iterated Prisoner's Dilemma over Dynamic Complex Networks. Computing and Informatics, 2017, 36, 493-516.	0.7	10
27	Agent-oriented Foraminifera Habitat Simulation. Procedia Computer Science, 2015, 51, 1062-1071.	2.0	9
28	Enhancing Particle Swarm Optimization with Socio-cognitive Inspirations. Procedia Computer Science, 2016, 80, 804-813.	2.0	9
29	Evolutionary Multi-Agent Computing in Inverse Problems. Computer Science, 2013, 14, 367.	0.6	9
30	Fine Tuning of Agent-Based Evolutionary Computing. Journal of Artificial Intelligence and Soft Computing Research, 2019, 9, 81-97.	4.3	9
31	Agent-based Evolutionary Computing for Difficult Discrete Problems. Procedia Computer Science, 2014, 29, 1039-1047.	2.0	8
32	Buffered local search for efficient memetic agent-based continuous optimization. Journal of Computational Science, 2017, 20, 112-117.	2.9	8
33	Large-scale urban traffic simulation with Scala and high-performance computing system. Journal of Computational Science, 2019, 35, 91-101.	2.9	8
34	High-performance computing framework with desynchronized information propagation for large-scale simulations. Journal of Computational Science, 2019, 32, 70-86.	2.9	8
35	Generation-free Agent-based Evolutionary Computing. Procedia Computer Science, 2014, 29, 1068-1077.	2.0	7
36	Real-time metaheuristic-based urban crossroad management with multi-variant planning. Journal of Computational Science, 2017, 23, 240-248.	2.9	7

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37	Hybridization of Isogeometric Finite Element Method and Evolutionary Multi-agent System as a Tool-set for Multiobjective Optimization of Liquid Fossil Fuel Reserves Exploitation with Minimizing Groundwater Contamination. Procedia Computer Science, 2016, 80, 792-803.	2.0	6
38	Lightweight Volunteer Computing Platform using Web Workers. Procedia Computer Science, 2017, 108, 948-957.	2.0	6
39	Flexible asynchronous simulation of iterated prisoner's dilemma based on actor model. Simulation Modelling Practice and Theory, 2018, 83, 75-92.	3.8	6
40	Efficient Memetic Continuous Optimization in Agent-based Computing. Procedia Computer Science, 2016, 80, 845-854.	2.0	5
41	The Missing Link! A New Skeleton for Evolutionary Multi-agent Systems in Erlang. International Journal of Parallel Programming, 2018, 46, 4-22.	1.5	5
42	Ant colony optimization–evolutionary hybrid optimization with translation of problem representation. Computational Intelligence, 2021, 37, 891-923.	3.2	5
43	Graphical analysis of social group dynamics. , 2012, , .		4
44	Evolutionary Multi-Agent System in Hard Benchmark Continuous Optimisation. Lecture Notes in Computer Science, 2013, , 132-141.	1.3	4
45	GPGPU for Difficult Black-box Problems. Procedia Computer Science, 2015, 51, 1023-1032.	2.0	4
46	Hybrid Swarm and Agent-Based Evolutionary Optimization. Lecture Notes in Computer Science, 2018, , 89-102.	1.3	4
47	Efficiency Of Memetic And Evolutionary Computing In Combinatorial Optimisation. , 2013, , .		4
48	MODEL FOR DYNAMIC AND HIERARCHICAL DATA REPOSITORY IN RELATIONAL DATABASE. Computer Science, 2018, 19, 481.	0.6	4
49	Agent-Based Meta-Heuristic Approach to Discrete Optimization. , 2011, , .		3
50	Agent-Based Integration of Data Acquired from Heterogeneous Sources. , 2011, , .		3
51	Agent-Oriented Computing Platform in Python. , 2014, , .		3
52	Towards Credible Driver Behavior Modeling. , 2015, , .		3
53	Measuring Diversity of Socio-Cognitively Inspired ACO Search. Lecture Notes in Computer Science, 2016, , 393-408.	1.3	3
54	eVolutus: A New Platform for Evolutionary Experiments. Lecture Notes in Computer Science, 2016, , 570-580.	1.3	3

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55	Agent-based Evolutionary and Memetic Black-box Discrete Optimization. Procedia Computer Science, 2017, 108, 907-916.	2.0	3
56	Leveraging heterogeneous parallel platform in solving hard discrete optimization problems with metaheuristics. Journal of Computational Science, 2017, 18, 59-68.	2.9	3
57	Asynchronous Actor-Based Approach to Multiobjective Hierarchical Strategy. Lecture Notes in Computer Science, 2020, , 172-185.	1.3	3
58	Lightweight Distributed Component-Oriented Multi-Agent Simulation Platform. , 2013, , .		3
59	Hierarchical Multi-Agent System for Heterogeneous Data Integration. Studies in Computational Intelligence, 2011, , 165-186.	0.9	3
60	Agent-Based Multi-variant Crisis Handling Strategies for SCADA Systems. Communications in Computer and Information Science, 2015, , 61-71.	0.5	2
61	Urban traffic simulation using credible driver modeling method. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1535-1546.	1.4	2
62	Evolutionary Multiobjective Optimization of Liquid Fossil Fuel Reserves Exploitation with Minimizing Natural Environment Contamination. Lecture Notes in Computer Science, 2016, , 384-394.	1.3	2
63	Asymptotic Features Of Parallel Agent-Based Immunological System. , 2011, , .		2
64	Volunteer Computing Simulation using Repast and Mason. Computer Science, 2013, 14, 153.	0.6	2
65	ANALYSIS OF DISTRIBUTED SYSTEMS DYNAMICS WITH ERLANG PERFORMANCE LAB. Computer Science, 2018, 19, 139.	0.6	2
66	Asymptotic Analysis of Computational Multi-Agent Systems. , 2010, , 475-484.		2
67	Markov Chain Analysis of Agent-based Evolutionary Computing in Dynamic Optimization. Procedia Computer Science, 2013, 18, 1475-1484.	2.0	1
68	Adaptation of Population Structure in Socio-cognitive Particle Swarm Optimization. Procedia Computer Science, 2016, 101, 177-186.	2.0	1
69	Differential Evolution in Agent-Based Computing. Lecture Notes in Computer Science, 2019, , 228-241.	1.3	1
70	Distributed ant system for difficult transport problems. Journal of Intelligent and Fuzzy Systems, 2019, 37, 7347-7356.	1.4	1
71	Validation of signal propagation modeling for highly scalable simulations. Concurrency Computation Practice and Experience, 2021, 33, e5718.	2.2	1
72	Socio-cognitive Evolution Strategies. Lecture Notes in Computer Science, 2021, , 329-342.	1.3	1

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73	Agent-Based Computing. Studies in Computational Intelligence, 2017, , 31-55.	0.9	1
74	Classic and Agent-Based Evolutionary Heuristics for Shape Optimization of Rotating Discs. Computing and Informatics, 2017, 36, 331-352.	0.7	1
75	PARALLEL PATTERNS FOR AGENT-BASED EVOLUTIONARY COMPUTING. Computer Science, 2016, 17, 83.	0.6	1
76	User-Assisted Management of Agent-Based Evolutionary Computation. Lecture Notes in Computer Science, 2008, , 654-663.	1.3	1
77	Adaptation of PyFlag to Efficient Analysis of Seized Computer Data Storage. Digital Forensics, Security and Law Journal, 0, , .	0.0	1
78	Agent-Based Simulation Of Volunteer Environment. , 2012, , .		1
79	Markov Chain Based Analysis of Agent-Based Immunological System. Lecture Notes in Computer Science, 2013, , 1-15.	1.3	1
80	Agent-Based Neuro-Evolution Algorithm. Smart Innovation, Systems and Technologies, 2015, , 95-108.	0.6	1
81	Towards the Implementation of Agent-Based Computing Systems. Studies in Computational Intelligence, 2017, , 123-138.	0.9	1
82	Extending Estimation of Distribution Algorithms with Agent-Based Computing Inspirations. Lecture Notes in Computer Science, 2017, , 191-207.	1.3	1
83	EMERGENCE OF POPULATION STRUCTURE IN SOCIO-COGNITIVELY INSPIRED ANT COLONY OPTIMIZATION. Computer Science, 2018, 19, 83.	0.6	1
84	HPC Large-Scale Pedestrian Simulation Based on Proxemics Rules. Lecture Notes in Computer Science, 2020, , 489-499.	1.3	1
85	Socially-inspired fully decentralized robot coordination. Simulation Modelling Practice and Theory, 2022, 119, 102528.	3.8	1
86	ICCS 2017 Workshop on Agent-Based Simulations, Adaptive Algorithms and Solvers. Procedia Computer Science, 2017, 108, 796-797.	2.0	0
87	Special issue on Parallel and distributed computing based on the functional programming paradigm. Concurrency Computation Practice and Experience, 2018, 30, e4842.	2.2	0
88	Evolutionary Multi-Agent System in Planning of Marine Trajectories. Lecture Notes in Computer Science, 2018, , 319-328.	1.3	0
89	Evolutionary Optimization of Intruder Interception Plans for Mobile Robot Groups. Lecture Notes in Computer Science, 2019, , 642-655.	1.3	0
90	Elitism in Multiobjective Hierarchical Strategy. Lecture Notes in Computer Science, 2021, , 214-228.	1.3	0

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91	Collective Intelligence from a Population of Evolving Neural Networks. , 2003, , 401-410.		0
92	Evolutionary Neural Networks in Collective Intelligent Predicting System. Lecture Notes in Computer Science, 2004, , 823-828.	1.3	0
93	An Attempt to Stochastic Modeling of Memetic Systems. Adaptation, Learning, and Optimization, 2010, , 179-202.	0.6	0
94	Scenario-Driven System for Open Source Intelligence. Communications in Computer and Information Science, 2012, , 242-251.	0.5	0
95	Extensible Volunteer Computing Platform. , 2013, , .		0
96	Agent-Based Approach to Continuous Optimisation. Advances in Intelligent Systems and Computing, 2014, , 487-494.	0.6	0
97	Contemporary Methods of Computational Intelligence. Studies in Computational Intelligence, 2017, , 3-29.	0.9	0
98	EMAS in Optimization Problems. Studies in Computational Intelligence, 2017, , 161-182.	0.9	0
99	AgE Computing Environment. Studies in Computational Intelligence, 2017, , 139-157.	0.9	0
100	Tuning of EMAS Parameters. Studies in Computational Intelligence, 2017, , 183-194.	0.9	0
101	Formal Aspects of Agent-Based Metaheuristics. Studies in Computational Intelligence, 2017, , 57-105.	0.9	0
102	Lamarckian and Lifelong Memetic Search in Agent-Based Computing. Lecture Notes in Computer Science, 2017, , 253-265.	1.3	0
103	Mobile Cloud for Parallel and Distributed Green Computing. Journal of Telecommunications and Information Technology, 2018, 4, 60-70.	0.4	0
104	Towards Large-Scale Optimization of Iterated Prisoner Dilemma Strategies. Lecture Notes in Computer Science, 2019, , 167-183.	1.3	0
105	Socio-cognitive ACO in Multi-criteria Optimization. Lecture Notes in Computer Science, 2019, , 488-501.	1.3	0
106	Active Safety for Individual and Connected Vehicles using Mobile Phone Only. , 2019, , .		0
107	Autonomous Hybridization of Agent-Based Computing. Lecture Notes in Computer Science, 2020, , 139-151.	1.3	0
108	Comparing Energetic and Immunological Selection in Agent-Based Evolutionary Optimization. , 2006, , 3-10.		0