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	Socially-inspired fully decentralized robot coordination. Simulation Modelling Practice and Theory, 2022, 119, 102528.	3.8	1
2	Validation of signal propagation modeling for highly scalable simulations. Concurrency Computation Practice and Experience, 2021, 33, e5718.	2.2	1
3	Elitism in Multiobjective Hierarchical Strategy. Lecture Notes in Computer Science, 2021, , 214-228.	1.3	0
4	Ant colony optimizationâ€"evolutionary hybrid optimization with translation of problem representation. Computational Intelligence, 2021, 37, 891-923.	3.2	5
5	Socio-cognitive Evolution Strategies. Lecture Notes in Computer Science, 2021, , 329-342.	1.3	1
6	Desynchronization in distributed Ant Colony Optimization in HPC environment. Future Generation Computer Systems, 2020, 109, 125-133.	7.5	17
7	Asynchronous Actor-Based Approach to Multiobjective Hierarchical Strategy. Lecture Notes in Computer Science, 2020, , 172-185.	1.3	3
8	Autonomous Hybridization of Agent-Based Computing. Lecture Notes in Computer Science, 2020, , 139-151.	1.3	0
9	HPC Large-Scale Pedestrian Simulation Based on Proxemics Rules. Lecture Notes in Computer Science, 2020, , 489-499.	1.3	1
10	Large-scale urban traffic simulation with Scala and high-performance computing system. Journal of Computational Science, 2019, 35, 91-101.	2.9	8
11	Distributed ant colony optimization based on actor model. Parallel Computing, 2019, 90, 102573.	2.1	12
12	Evolutionary Optimization of Intruder Interception Plans for Mobile Robot Groups. Lecture Notes in Computer Science, 2019, , 642-655.	1.3	0
13	Differential Evolution in Agent-Based Computing. Lecture Notes in Computer Science, 2019, , 228-241.	1.3	1
14	Distributed ant system for difficult transport problems. Journal of Intelligent and Fuzzy Systems, 2019, 37, 7347-7356.	1.4	1
15	High-performance computing framework with desynchronized information propagation for large-scale simulations. Journal of Computational Science, 2019, 32, 70-86.	2.9	8
16	Towards Large-Scale Optimization of Iterated Prisoner Dilemma Strategies. Lecture Notes in Computer Science, 2019, , 167-183.	1.3	0
17	Fine Tuning of Agent-Based Evolutionary Computing. Journal of Artificial Intelligence and Soft Computing Research, 2019, 9, 81-97.	4.3	9
18	Socio-cognitive ACO in Multi-criteria Optimization. Lecture Notes in Computer Science, 2019, , 488-501.	1.3	0

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19	Active Safety for Individual and Connected Vehicles using Mobile Phone Only. , 2019, , .		0
20	Flexible asynchronous simulation of iterated prisoner's dilemma based on actor model. Simulation Modelling Practice and Theory, 2018, 83, 75-92.	3.8	6
21	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
22	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
23	Special issue on Parallel and distributed computing based on the functional programming paradigm. Concurrency Computation Practice and Experience, 2018, 30, e4842.	2.2	0
24	Evolutionary Multi-Agent System in Planning of Marine Trajectories. Lecture Notes in Computer Science, 2018, , 319-328.	1.3	0
25	Hybrid Swarm and Agent-Based Evolutionary Optimization. Lecture Notes in Computer Science, 2018, , 89-102.	1.3	4
26	ANALYSIS OF DISTRIBUTED SYSTEMS DYNAMICS WITH ERLANG PERFORMANCE LAB. Computer Science, 2018, 19, 139.	0.6	2
27	Mobile Cloud for Parallel and Distributed Green Computing. Journal of Telecommunications and Information Technology, 2018, 4, 60-70.	0.4	0
28	EMERGENCE OF POPULATION STRUCTURE IN SOCIO-COGNITIVELY INSPIRED ANT COLONY OPTIMIZATION. Computer Science, 2018, 19, 83.	0.6	1
29	MODEL FOR DYNAMIC AND HIERARCHICAL DATA REPOSITORY IN RELATIONAL DATABASE. Computer Science, 2018, 19, 481.	0.6	4
30	Socio-cognitively inspired ant colony optimization. Journal of Computational Science, 2017, 21, 397-406.	2.9	17
31	Buffered local search for efficient memetic agent-based continuous optimization. Journal of Computational Science, 2017, 20, 112-117.	2.9	8
32	Real-time metaheuristic-based urban crossroad management with multi-variant planning. Journal of Computational Science, 2017, 23, 240-248.	2.9	7
33	Urban traffic simulation using credible driver modeling method. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1535-1546.	1.4	2
34	Agent-based Evolutionary and Memetic Black-box Discrete Optimization. Procedia Computer Science, 2017, 108, 907-916.	2.0	3
35	ICCS 2017 Workshop on Agent-Based Simulations, Adaptive Algorithms and Solvers. Procedia Computer Science, 2017, 108, 796-797.	2.0	0
36	Lightweight Volunteer Computing Platform using Web Workers. Procedia Computer Science, 2017, 108, 948-957.	2.0	6

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37	Leveraging heterogeneous parallel platform in solving hard discrete optimization problems with metaheuristics. Journal of Computational Science, 2017, 18, 59-68.	2.9	3
38	Evolutionary Multi-Agent Systems. Studies in Computational Intelligence, 2017, , .	0.9	11
39	Agent-Based Computing. Studies in Computational Intelligence, 2017, , 31-55.	0.9	1
40	Classic and Agent-Based Evolutionary Heuristics for Shape Optimization of Rotating Discs. Computing and Informatics, 2017, 36, 331-352.	0.7	1
41	Contemporary Methods of Computational Intelligence. Studies in Computational Intelligence, 2017, , 3-29.	0.9	0
42	EMAS in Optimization Problems. Studies in Computational Intelligence, 2017, , 161-182.	0.9	0
43	AgE Computing Environment. Studies in Computational Intelligence, 2017, , 139-157.	0.9	0
44	Towards the Implementation of Agent-Based Computing Systems. Studies in Computational Intelligence, 2017, , 123-138.	0.9	1
45	Tuning of EMAS Parameters. Studies in Computational Intelligence, 2017, , 183-194.	0.9	0
46	Formal Aspects of Agent-Based Metaheuristics. Studies in Computational Intelligence, 2017, , 57-105.	0.9	0
47	Extending Estimation of Distribution Algorithms with Agent-Based Computing Inspirations. Lecture Notes in Computer Science, 2017, , 191-207.	1.3	1
48	Emerging Cooperation in N-Person Iterated Prisoner's Dilemma over Dynamic Complex Networks. Computing and Informatics, 2017, 36, 493-516.	0.7	10
49	Lamarckian and Lifelong Memetic Search in Agent-Based Computing. Lecture Notes in Computer Science, 2017, , 253-265.	1.3	0
50	Adaptation of Population Structure in Socio-cognitive Particle Swarm Optimization. Procedia Computer Science, 2016, 101, 177-186.	2.0	1
51	Measuring Diversity of Socio-Cognitively Inspired ACO Search. Lecture Notes in Computer Science, 2016, , 393-408.	1.3	3
52	eVolutus: A New Platform for Evolutionary Experiments. Lecture Notes in Computer Science, 2016, , 570-580.	1.3	3
53	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
54	Enhancing Particle Swarm Optimization with Socio-cognitive Inspirations. Procedia Computer Science, 2016, 80, 804-813.	2.0	9

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55	Efficient Memetic Continuous Optimization in Agent-based Computing. Procedia Computer Science, 2016, 80, 845-854.	2.0	5
56	Highly scalable Erlang framework for agent-based metaheuristic computing. Journal of Computational Science, 2016, 17, 234-248.	2.9	12
57	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
58	PARALLEL PATTERNS FOR AGENT-BASED EVOLUTIONARY COMPUTING. Computer Science, 2016, 17, 83.	0.6	1
59	Agent-Based Multi-variant Crisis Handling Strategies for SCADA Systems. Communications in Computer and Information Science, 2015, , 61-71.	0.5	2
60	Agent-oriented Foraminifera Habitat Simulation. Procedia Computer Science, 2015, 51, 1062-1071.	2.0	9
61	Towards Credible Driver Behavior Modeling. , 2015, , .		3
62	Massively concurrent agent-based evolutionary computing. Journal of Computational Science, 2015, 11, 153-162.	2.9	20
63	Evolutionary multi-agent systems. Knowledge Engineering Review, 2015, 30, 171-186.	2.6	73
64	Multi-pheromone ant Colony Optimization for Socio-cognitive Simulation Purposes. Procedia Computer Science, 2015, 51, 954-963.	2.0	10
65	GPGPU for Difficult Black-box Problems. Procedia Computer Science, 2015, 51, 1023-1032.	2.0	4
66	Agent-Based Neuro-Evolution Algorithm. Smart Innovation, Systems and Technologies, 2015, , 95-108.	0.6	1
67	Agent-Oriented Computing Platform in Python. , 2014, , .		3
68	Computing agents for decision support systems. Future Generation Computer Systems, 2014, 37, 390-400.	7.5	26
69	Generation-free Agent-based Evolutionary Computing. Procedia Computer Science, 2014, 29, 1068-1077.	2.0	7
70	Agent-based Evolutionary Computing for Difficult Discrete Problems. Procedia Computer Science, 2014, 29, 1039-1047.	2.0	8
71	Agent-Based Approach to Continuous Optimisation. Advances in Intelligent Systems and Computing, 2014, , 487-494.	0.6	0
72	Hierarchical genetic-based grid scheduling with energy optimization. Cluster Computing, 2013, 16, 591-609.	5.0	34

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73	Markov Chain Analysis of Agent-based Evolutionary Computing in Dynamic Optimization. Procedia Computer Science, 2013, 18, 1475-1484.	2.0	1
74	Evolutionary Multi-Agent System in Hard Benchmark Continuous Optimisation. Lecture Notes in Computer Science, 2013, , 132-141.	1.3	4
75	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
76	Lightweight Distributed Component-Oriented Multi-Agent Simulation Platform. , 2013, , .		3
77	Efficiency Of Memetic And Evolutionary Computing In Combinatorial Optimisation. , 2013, , .		4
78	Volunteer Computing Simulation using Repast and Mason. Computer Science, 2013, 14, 153.	0.6	2
79	Evolutionary Multi-Agent Computing in Inverse Problems. Computer Science, 2013, 14, 367.	0.6	9
80	Agent-based computing parameters tuning. Computer Science, 2013, 14, 491.	0.6	12
81	Markov Chain Based Analysis of Agent-Based Immunological System. Lecture Notes in Computer Science, 2013, , 1-15.	1.3	1
82	Extensible Volunteer Computing Platform. , 2013, , .		0
83	Graphical analysis of social group dynamics. , 2012, , .		4
84	An agent-based model of hierarchic genetic search. Computers and Mathematics With Applications, 2012, 64, 3763-3776.	2.7	14
85	Agent-Based Simulation in AgE Framework. Studies in Computational Intelligence, 2012, , 55-83.	0.9	13
86	The island model as a Markov dynamic system. International Journal of Applied Mathematics and Computer Science, 2012, 22, 971-984.	1.5	12
87	Scenario-Driven System for Open Source Intelligence. Communications in Computer and Information Science, 2012, , 242-251.	0.5	0
88	Agent-Based Simulation Of Volunteer Environment. , 2012, , .		1
89	Agent-Based Meta-Heuristic Approach to Discrete Optimization. , 2011, , .		3
90	Agent-Based Integration of Data Acquired from Heterogeneous Sources. , 2011, , .		3

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91	Asymptotic Features Of Parallel Agent-Based Immunological System. , 2011, , .		2
92	Hierarchical Multi-Agent System for Heterogeneous Data Integration. Studies in Computational Intelligence, 2011, , 165-186.	0.9	3
93	Asymptotic Analysis of Computational Multi-Agent Systems. , 2010, , 475-484.		2
94	An Attempt to Stochastic Modeling of Memetic Systems. Adaptation, Learning, and Optimization, 2010, , 179-202.	0.6	0
95	Stochastic Model of Evolutionary and Immunological Multi-Agent Systems: Parallel Execution of Local Actions. Fundamenta Informaticae, 2009, 95, 325-348.	0.4	14
96	Stochastic Model of Evolutionary and Immunological Multi-Agent Systems: Mutually Exclusive Actions. Fundamenta Informaticae, 2009, 95, 263-285.	0.4	13
97	Formal model for agent-based asynchronous evolutionary computation. , 2009, , .		17
98	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
99	Functional Integrity of Multi-agent Computational System Supported by Component-Based Implementation. Lecture Notes in Computer Science, 2009, , 82-91.	1.3	13
100	Agent-Based Immunological Intrusion Detection System for Mobile Ad-Hoc Networks. Lecture Notes in Computer Science, 2008, , 584-593.	1.3	11
101	User-Assisted Management of Agent-Based Evolutionary Computation. Lecture Notes in Computer Science, 2008, , 654-663.	1.3	1
102	Agent-Based Evolutionary and Immunological Optimization. Lecture Notes in Computer Science, 2007, , 928-935.	1.3	19
103	Comparing Energetic and Immunological Selection in Agent-Based Evolutionary Optimization. , 2006, , 3-10.		0
104	Immune-Based Optimization of Predicting Neural Networks. Lecture Notes in Computer Science, 2005, , 703-710.	1.3	10
105	Immunological Selection Mechanism in Agent-Based Evolutionary Computation. , 2005, , 411-415.		15
106	Evolutionary Neural Networks in Collective Intelligent Predicting System. Lecture Notes in Computer Science, 2004, , 823-828.	1.3	0
107	Collective Intelligence from a Population of Evolving Neural Networks. , 2003, , 401-410.		0
108	Adaptation of PyFlag to Efficient Analysis of Seized Computer Data Storage. Digital Forensics, Security and Law Journal, 0, , .	0.0	1