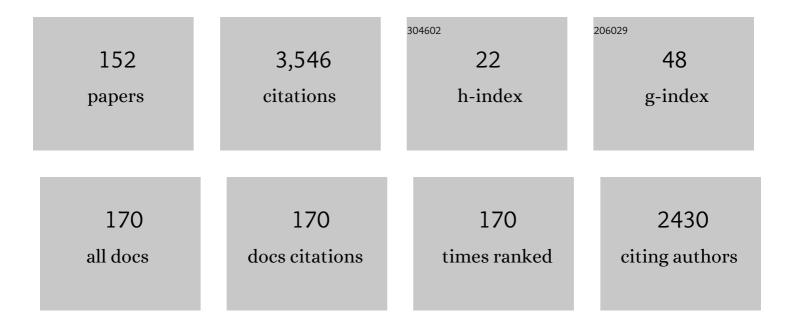
Hartmut K Schmeck

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ant colony optimization for resource-constrained project scheduling. IEEE Transactions on Evolutionary Computation, 2002, 6, 333-346.	7.5	530
2	Guidance in evolutionary multi-objective optimization. Advances in Engineering Software, 2001, 32, 499-507.	1.8	257
3	A Multi-population Approach to Dynamic Optimization Problems. , 2000, , 299-307.		201
4	Portfolio optimization with an envelope-based multi-objective evolutionary algorithm. European Journal of Operational Research, 2009, 199, 684-693.	3.5	147
5	Multi Colony Ant Algorithms. Journal of Heuristics, 2002, 8, 305-320.	1.1	138
6	Adaptivity and self-organization in organic computing systems. ACM Transactions on Autonomous and Adaptive Systems, 2010, 5, 1-32.	0.4	128
7	Organic computing - a new vision for distributed embedded systems. , 2005, , .		120
8	Designing Evolutionary Algorithms for Dynamic Optimization Problems. Natural Computing Series, 2003, , 239-262.	2.2	109
9	Dynamic scheduling of tasks on partially reconfigurable FPGAs. IEE Proceedings: Computers and Digital Techniques, 2000, 147, 181.	1.6	98
10	Modeling and Valuation of Residential Demand Flexibility for Renewable Energy Integration. IEEE Transactions on Smart Grid, 2017, 8, 2565-2574.	6.2	96
11	Improving Electric Vehicle Charging Coordination Through Area Pricing. Transportation Science, 2014, 48, 619-634.	2.6	69
12	Organic Computing & amp; #150; Addressing Complexity by Controlled Self-Organization. , 2006, , .		68
13	Experiences with fineâ€grainedparallel genetic algorithms. Annals of Operations Research, 1999, 90, 203-219.	2.6	61
14	Observation and Control of Organic Systems. , 2011, , 325-338.		61
15	Systolic Sorting on a Mesh-Connected Network. IEEE Transactions on Computers, 1985, C-34, 652-658.	2.4	55
16	FPGA implementation of population-based ant colony optimization. Applied Soft Computing Journal, 2004, 4, 303-322.	4.1	55
17	Energy Informatics. Business and Information Systems Engineering, 2014, 6, 25-31.	4.0	55

18 Multi-objective particle swarm optimization on computer grids. , 2007, , .

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#	Article	IF	CITATIONS
19	Adaptive building energy management with multiple commodities and flexible evolutionary optimization. Renewable Energy, 2016, 87, 911-921.	4.3	50
20	Information Exchange in Multi Colony Ant Algorithms. Lecture Notes in Computer Science, 2000, , 645-652.	1.0	46
21	Efficient implementation of an active set algorithm for large-scale portfolio selection. Computers and Operations Research, 2008, 35, 3945-3961.	2.4	40
22	Organic traffic light control for urban road networks. International Journal of Autonomous and Adaptive Communications Systems, 2009, 2, 203.	0.2	39
23	Organic Control of Traffic Lights. Lecture Notes in Computer Science, 2008, , 219-233.	1.0	37
24	Decentralized evolution of robotic behavior using finite state machines. International Journal of Intelligent Computing and Cybernetics, 2009, 2, 695-723.	1.6	35
25	A threat analysis of the vehicle-to-grid charging protocol ISO 15118. Computer Science - Research and Development, 2018, 33, 3-12.	2.7	34
26	Organic Traffic Control. , 2011, , 431-446.		30
27	Organic smart home. , 2011, , .		29
28	The instruction systolic array and its relation to other models of parallel computers. Parallel Computing, 1988, 7, 25-39.	1.3	27
29	Distance Based Ranking in Many-Objective Particle Swarm Optimization. Lecture Notes in Computer Science, 2008, , 753-762.	1.0	26
30	Decentralised Progressive Signal Systems for Organic Traffic Control. , 2008, , .		23
31	Parallel multi-objective optimization using Master-Slave model on heterogeneous resources. , 2008, , .		22
32	Decentralized Energy-Management to Control Smart-Home Architectures. Lecture Notes in Computer Science, 2010, , 150-161.	1.0	20
33	Variable Preference Modeling Using Multi-Objective Evolutionary Algorithms. Lecture Notes in Computer Science, 2011, , 91-105.	1.0	20
34	Dictionary Machines for Different Models of VLSI. IEEE Transactions on Computers, 1985, C-34, 472-475.	2.4	18
35	Integration of electric vehicles in smart homes - an ICT-based solution for V2G scenarios. , 2012, , .		18
36	A Microservice Architecture for the Intranet of Things and Energy in Smart Buildings. , 2016, , .		18

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#	Article	IF	Citations
37	In Search of Equitable Solutions Using Multi-objective Evolutionary Algorithms. , 2010, , 687-696.		17
38	User behavior prediction for energy management in smart homes. , 2011, , .		17
39	User interaction interface for Energy Management in Smart Homes. , 2012, , .		17
40	Distribution of Evolutionary Algorithms in Heterogeneous Networks. Lecture Notes in Computer Science, 2004, , 923-934.	1.0	16
41	Smart Meter Gateways: Options for a BSI-Compliant Integration of Energy Management Systems. Applied Sciences (Switzerland), 2019, 9, 1634.	1.3	16
42	Hop count based distance estimation in mobile ad hoc networks – Challenges and consequences. Ad Hoc Networks, 2014, 15, 39-52.	3.4	15
43	Building power demand forecasting using K-nearest neighbours model – practical application in Smart City Demo Aspern project. CIRED - Open Access Proceedings Journal, 2017, 2017, 1601-1604.	0.1	15
44	A Reference Architecture for Self-organizing Service-Oriented Computing. Lecture Notes in Computer Science, 2008, , 205-219.	1.0	13
45	Assessing load flexibility in smart grids: Electric vehicles for renewable energy integration. , 2013, , .		13
46	Establishing a hardware-in-the-loop research environment with a hybrid energy storage system. , 2016, , .		13
47	Angle-Based Preference Models in Multi-objective Optimization. Lecture Notes in Computer Science, 2017, , 88-102.	1.0	13
48	Requirements for Power Hardware-in-the-Loop Emulation of Distribution Grid Challenges. , 2018, , .		13
49	Pheromone evaluation in Ant Colony Optimization. , 0, , .		12
50	Towards a Quantitative Notion of Self-organisation. , 2007, , .		12
51	Demand side management in smart buildings by intelligent scheduling of heat pumps. , 2014, , .		12
52	State-of-the-Art Integration of Decentralized Energy Management Systems into the German Smart Meter Gateway Infrastructure. Applied Sciences (Switzerland), 2020, 10, 3665.	1.3	12
53	A theoretical analysis of volume based Pareto front approximations. , 2014, , .		11
54	Towards the Modeling of Flexibility Using Artificial Neural Networks in Energy Management and Smart Grids. , 2018, , .		11

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#	Article	IF	CITATIONS
55	Theory and Algorithms for Finding Knees. Lecture Notes in Computer Science, 2013, , 156-170.	1.0	11
56	Encodings for Evolutionary Algorithms in smart buildings with energy management systems. , 2014, , .		10
57	A neuro-genetic approach for modeling and optimizing a complex cogeneration process. Applied Soft Computing Journal, 2016, 48, 347-358.	4.1	10
58	A generic user interface for energy management in smart homes. Energy Informatics, 2018, 1, .	1.4	10
59	The influence of differential privacy on short term electric load forecasting. Energy Informatics, 2018, 1, .	1.4	10
60	Systolic sorting in a sequential input/output environment. Parallel Computing, 1986, 3, 11-23.	1.3	9
61	Service Discovery in Self-Organizing Service-Oriented Environments. , 2010, , .		9
62	Obtaining Optimal Pareto Front Approximations using Scalarized Preference Information. , 2015, , .		9
63	Evolutionary Optimization of Smart Buildings with Interdependent Devices. Lecture Notes in Computer Science, 2015, , 239-251.	1.0	9
64	Modeling flexibility using artificial neural networks. Energy Informatics, 2018, 1, .	1.4	9
65	A Framework for Incorporating Trade-Off Information Using Multi-Objective Evolutionary Algorithms. , 2010, , 131-140.		9
66	XCS Revisited: A Novel Discovery Component for the eXtended Classifier System. Lecture Notes in Computer Science, 2010, , 289-298.	1.0	9
67	Algebraic characterization of reducible flowcharts. Journal of Computer and System Sciences, 1983, 27, 165-199.	0.9	8
68	Possibilities and limitations of decentralised traffic control systems. , 2010, , .		8
69	Firefly-inspired synchronization for energy-efficient distance estimation in mobile ad-hoc networks. , 2012, , .		8
70	Hardware-in-the-Loop Co-simulation of a Smart Building in a Low-voltage Distribution Grid. , 2018, , .		8
71	Organic Computing: Quo vadis?. , 2011, , 615-627.		8
72	Distributed Geometric Distance Estimation in Ad Hoc Networks. Lecture Notes in Computer Science, 2012, , 28-41.	1.0	8

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#	Article	lF	CITATIONS
73	Multiplication of Matrices With Different Sparseness Properties on Dynamically Reconfigurable Meshes. VLSI Design, 1999, 9, 69-81.	0.5	7
74	Population based ant colony optimization on FPGA. , 0, , .		7
75	Decentralised Route Guidance in Organic Traffic Control. , 2011, , .		7
76	Optimization of Operation and Control Strategies for Battery Energy Storage Systems by Evolutionary Algorithms. Lecture Notes in Computer Science, 2016, , 507-522.	1.0	7
77	Strategies for an Adaptive Control System to Improve Power Grid Resilience with Smart Buildings. Energies, 2021, 14, 4472.	1.6	7
78	A simulator for the reconfigurable mesh architecture. Lecture Notes in Computer Science, 1998, , 99-104.	1.0	7
79	A closer look at VLSI multiplication. The Integration VLSI Journal, 1988, 6, 345-359.	1.3	6
80	Title is missing!. Journal of Supercomputing, 2003, 26, 221-238.	2.4	6
81	A Study of Mobility in Ad Hoc Networks and Its Effects on a Hop Count Based Distance Estimation. , 2012, , .		6
82	Organic Architecture for Energy Management and Smart Grids. , 2015, , .		6
83	Comparison of Multi-objective Evolutionary Optimization in Smart Building Scenarios. Lecture Notes in Computer Science, 2016, , 443-458.	1.0	6
84	Provision of frequency containment reserve with an aggregate of air handling units. Computer Science - Research and Development, 2018, 33, 215-221.	2.7	6
85	Adaptivity and Self-organisation in Organic Computing Systems. , 2011, , 5-37.		6
86	Energy informatics. Communications of the ACM, 2022, 65, 58-63.	3.3	6
87	A fast sorting algorithm for VLSI. , 1983, , 408-419.		5
88	A Characterization of Key Properties of Environment-Mediated Multiagent Systems. Lecture Notes in Computer Science, 2007, , 17-38.	1.0	5
89	A Completely Evolvable Genotype-Phenotype Mapping for Evolutionary Robotics. , 2009, , .		5
90	Enabling Self-Organising Service Level Management with Automated Negotiation. , 2010, , .		5

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#	Article	IF	CITATIONS
91	Organic Computing: A Grand Challenge for Mastering Complex Systems. IT - Information Technology, 2010, 52, 135-141.	0.6	5
92	Plug-and-Charge and E-Roaming – Capabilities of the ISO/IEC 15118 for the E-Mobility Scenario. Automatisierungstechnik, 2014, 62, 241-248.	0.4	5
93	Response of smart residential buildings with energy management systems to price deviations. , 2015, , .		5
94	Detecting Occupancy in Smart Buildings by Data Fusion from Low-cost Sensors. , 2017, , .		5
95	Multimodal scalarized preferences in multi-objective optimization. , 2017, , .		5
96	Measurement and Control of Self-organised Behaviour in Robot Swarms. , 2007, , 209-223.		5
97	Using Organic Computing to Control Bunching Effects. , 2008, , 232-244.		5
98	Improving XCS Performance by Distribution. Lecture Notes in Computer Science, 2008, , 111-120.	1.0	5
99	Towards a Deeper Understanding of Trade-offs Using Multi-objective Evolutionary Algorithms. Lecture Notes in Computer Science, 2012, , 396-405.	1.0	5
100	E-Energy — Paving the Way for an Internet of EnergyAuf dem Weg zum Internet der Energie. IT - Information Technology, 2010, 52, 55-57.	0.6	4
101	Stay real!. , 2012, , .		4
102	Smart grid services provided by building energy management systems. , 2015, , .		4
103	Automated generation of models for demand side flexibility using machine learning. , 2021, 1, 107-120.		4
104	A distributed genetic algorithm improving the generalization behavior of neural networks. Lecture Notes in Computer Science, 1995, , 107-121.	1.0	3
105	An Evolutionary Approach to Dynamic Task Scheduling on FPGAs with Restricted Buffer. Journal of Parallel and Distributed Computing, 2002, 62, 1407-1420.	2.7	3
106	Organic computing in off-highway machines. , 2010, , .		3
107	A Privacy-Aware Architecture for Energy Management Systems in Smart Grids. , 2014, , .		3
108	Utilization of Local Flexibility for Charge Management of a Battery Energy Storage System Providing Frequency Containment Reserve. Energy Procedia, 2018, 155, 443-453.	1.8	3

#	Article	IF	CITATIONS
109	Evolutionary Design of Emergent Behavior. Understanding Complex Systems, 2009, , 123-140.	0.3	3
110	State-based load profile generation for modeling energetic flexibility. Energy Informatics, 2019, 2, .	1.4	3
111	Evolving Collision Avoidance on Autonomous Robots. International Federation for Information Processing, 2008, , 85-94.	0.4	3
112	Systolic s/sup 2/-way merge sort is optimal. IEEE Transactions on Computers, 1989, 38, 1052-1056.	2.4	2
113	Assessing complexity of service-oriented computing using learning classifier systems. , 2009, , .		2
114	Adaption of XCS to multi-learner predator/prey scenarios. , 2010, , .		2
115	Self-organized invasive parallel optimization. , 2011, , .		2
116	Distributed swarm evacuation planning. , 2013, , .		2
117	On homogenization of coal in longitudinal blending beds. , 2014, , .		2
118	Designing K-nearest neighbors model for low voltage load forecasting. , 2017, , .		2
119	Demo abstract: a building energy management system in the context of the smart grid traffic light concept. Computer Science - Research and Development, 2018, 33, 269-270.	2.7	2
120	Test Beds for Component Integration in Energy Systems. , 2019, , .		2
121	Given's rotation on an instruction systolic array. Lecture Notes in Computer Science, 1989, , 340-346.	1.0	2
122	An Evolutionary Optimization Approach for Bulk Material Blending Systems. Lecture Notes in Computer Science, 2012, , 478-488.	1.0	2
123	Decentralised Energy Management for Smart Homes. , 2011, , 605-607.		2
124	Algebraic semantics of recursive flowchart schemes. Lecture Notes in Computer Science, 1982, , 489-501.	1.0	1
125	Algebraic semantics of recursive flowchart schemes. Information and Control, 1983, 59, 108-126.	1.3	1
126	On the maximum edge length in VLSI layouts of complete binary trees. Information Processing Letters, 1986, 23, 19-23.	0.4	1

#	Article	IF	CITATIONS
127	SimSOA. , 2009, , .		1
128	Efficient barycenter algorithm for drawing hierarchical graphs with minimum edge crossings. , 2011, , .		1
129	Welcome to the 1 st international workshop on Software Engineering for the Smart Grid (SE4SG 2012). , 2012, , .		1
130	On the interrelationships between knees and aggregate objective functions. , 2014, , .		1
131	Reference Scenarios for Low Voltage Power Systems. , 2017, , .		1
132	State-of-the-art user interfaces for building operating systems. , 2017, , .		1
133	A Unified Framework for Metaheuristics. Lecture Notes in Computer Science, 2003, , 1568-1569.	1.0	1
134	Time-Scattered Heuristic for the Hardware Implementation of Population-Based ACO. Lecture Notes in Computer Science, 2004, , 250-261.	1.0	1
135	Self-organized Parallel Cooperation for Solving Optimization Problems. Lecture Notes in Computer Science, 2009, , 135-145.	1.0	1
136	BEMCom. , 2022, 2, 20-25.		1
137	Formal Asynchronous Systems Modelling. Fundamenta Informaticae, 2000, 42, 335-389.	0.3	Ο
138	Assessing the Impact of Inherent SOA System Properties on Complexity. , 2009, , .		0
139	Age based controller stabilization in Evolutionary Robotics. , 2010, , .		Ο
140	Evolvability in Evolutionary Robotics: Evolving the Genotype-Phenotype Mapping. , 2010, , .		0
141	Introducing the Simulation Plugin Interface and the EAS Framework with comparison to two state-of-the-art agent simulation frameworks. , 2012, , .		Ο
142	Evolutionary algorithm for optimal anchor node placement to localize devices in a mobile ad hoc network during building evacuation. , 2013, , .		0
143	Smart Energy Systems. IT - Information Technology, 2013, 55, 43-44.	0.6	0
144	Self-organised swarm display. International Journal of Swarm Intelligence, 2014, 1, 246.	0.2	0

#	Article	IF	CITATIONS
145	Stigmergy-Based Scheduling of Flexible Loads. Lecture Notes in Computer Science, 2016, , 475-490.	1.0	0
146	Outlining Ensemble K-Nearest Neighbors Approach for Low-Voltage Power Demand Forecasting. , 2017, ,		0
147	Ceneration of Time-of-Use Tariffs for Demand Side Management using Artificial Neural Networks. , 2018, , .		Ο
148	Collaborating and Learning Predators on a Pursuit Scenario. International Federation for Information Processing, 2010, , 290-301.	0.4	0
149	The JoSchKa System: Organic Job Distribution in Heterogeneous and Unreliable Environments. Lecture Notes in Computer Science, 2010, , 73-86.	1.0	0
150	Self-organized Invasive Parallel Optimization with Self-repairing Mechanism. PARS Parallel-Algorithmen -Rechnerstrukturen Und -Systemsoftware, 2011, 28, 90-99.	0.2	0
151	Design of Gate Array Circuits Using Evolutionary Algorithms. , 2008, , 38-50.		0
152	Remarks on Self-organization and Trust in Organic Computing Systems. Lecture Notes in Computer Science, 2007, , 2-2.	1.0	0