Paul Davidsson

List of Publications by Year
in descending order

125 papers	1,756 citations	471509 17 h-index	395702 33 g-index
136 all docs	136 docs citations	136 times ranked	1350 citing authors

#	Article	IF	Citations
1	An analysis of agent-based approaches to transport logistics. Transportation Research Part C: Emerging Technologies, 2005, 13, 255-271.	7.6	248
2	On Privacy and Security Challenges in Smart Connected Homes. , 2016, , .		110
3	TAPAS: A multi-agent-based model for simulation of transport chains. Simulation Modelling Practice and Theory, 2012, 23, 1-18.	3.8	81
4	Distributed monitoring and control of office buildings by embedded agents. Information Sciences, 2005, 171, 293-307.	6.9	79
5	Towards a model of privacy and security for smart homes. , 2015, , .		63
6	The Fourth Wave of Digitalization and Public Transport: Opportunities and Challenges. Sustainability, 2016, 8, 1248.	3.2	52
7	Agent-Based Social Simulation of the Covid-19 Pandemic: A Systematic Review. Jasss, 2021, 24, .	1.8	52
8	A comparison of machine learning algorithms for forecasting indoor temperature in smart buildings. Energy Systems, 2022, 13, 689-705.	3.0	49
9	Categories of Artificial Societies. Lecture Notes in Computer Science, 2001, , 1-9.	1.3	35
10	Agent based simulation architecture for evaluating operational policies in transshipping containers. Autonomous Agents and Multi-Agent Systems, 2009, 18, 220-238.	2.1	34
11	Architecting Emergent Configurations in the Internet of Things. , 2017, , .		30
12	Analysing the Combined Health, Social and Economic Impacts of the Corovanvirus Pandemic Using Agent-Based Social Simulation. Minds and Machines, 2020, 30, 177-194.	4.8	29
13	Edge Computing Simulators for IoT System Design: An Analysis of Qualities and Metrics. Future Internet, 2019, 11, 235.	3.8	27
14	A multi-agent system for controlling intelligent buildings. , 0, , .		26
15	On the Integration of Agent-Based and Mathematical Optimization Techniques. Lecture Notes in Computer Science, 2007, , 1-10.	1.3	25
16	Cloud, Edge, or Both? Towards Decision Support for Designing IoT Applications. , 2018, , .		24
17	Applications of Agent Based Simulation. , 2006, , 15-27.		24
18	Learning to detect spyware using end user license agreements. Knowledge and Information Systems, 2011, 26, 285-307.	3.2	23

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19	Characterizing Internet of Things Systems through Taxonomies: A Systematic Mapping Study. Internet of Things (Netherlands), 2019, 7, 100084.	7.7	21
20	Demand side management in district heating systems. , 2007, , .		20
21	Collaborative Sensing with Interactive Learning using Dynamic Intelligent Virtual Sensors. Sensors, 2019, 19, 477.	3.8	20
22	A multi-agent system architecture for coordination of just-in-time production and distribution. Knowledge Engineering Review, 2002, 17, 317-329.	2.6	19
23	Towards anticipatory agents. Lecture Notes in Computer Science, 1995, , 191-202.	1.3	18
24	Evaluation of Automated Guided Vehicle Systems for Container Terminals Using Multi Agent Based Simulation. Lecture Notes in Computer Science, 2009, , 85-96.	1.3	18
25	Scalability in Distributed Multi-Agent Based Simulations: The JADE Case. , 2008, , .		17
26	What Is an Open IoT Platform? Insights from a Systematic Mapping Study. Future Internet, 2020, 12, 73.	3.8	17
27	Agent-based Simulation of Freight Transport between Geographical Zones. Procedia Computer Science, 2013, 19, 829-834.	2.0	16
28	A Goal-Driven Approach for Deploying Self-Adaptive IoT Systems. , 2020, , .		16
29	A Framework for Preventive State Anticipation. Lecture Notes in Computer Science, 2003, , 151-166.	1.3	14
30	Evaluating learning algorithms and classifiers. International Journal of Intelligent Information and Database Systems, 2007, 1, 37.	0.3	14
31	Measure-based classifier performance evaluation. Pattern Recognition Letters, 1999, 20, 1165-1173.	4.2	13
32	Characterization and Evaluation of Multi-agent System Architectural Styles. Lecture Notes in Computer Science, 2006, , 179-188.	1.3	13
33	Agent Based Simulation Architecture for Evaluating Operational Policies in Transshipping Containers. Lecture Notes in Computer Science, 2006, , 73-85.	1.3	13
34	Software agents for bioprocess monitoring and control. Journal of Chemical Technology and Biotechnology, 2002, 77, 761-766.	3.2	12
35	A Hybrid Micro-Simulator for Determining the Effects of Governmental Control Policies on Transport Chains. Lecture Notes in Computer Science, 2005, , 236-247.	1.3	12
36	An IoT Software Architecture for an Evacuable Building Architecture. , 2019, , .		12

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37	Potential Benefits of Demand Responsive Transport in Rural Areas: A Simulation Study in Lolland, Denmark. Sustainability, 2022, 14, 3252.	3.2	12
38	An analysis of malicious threat agents for the smart connected home. , 2017, , .		11
39	ECo-IoT: An Architectural Approach for Realizing Emergent Configurations in the Internet of Things. Lecture Notes in Computer Science, 2018, , 86-102.	1.3	11
40	Quality attributes in edge computing for the Internet of Things: A systematic mapping study. Internet of Things (Netherlands), 2021, 13, 100346.	7.7	11
41	On the potential of norm-governed behavior in different categories of artificial societies. Computational and Mathematical Organization Theory, 2006, 12, 169-180.	2.0	10
42	Combining Macro-level and Agent-based Modeling for Improved Freight Transport Analysis. Procedia Computer Science, 2014, 32, 380-387.	2.0	10
43	On Multi Agent Based Simulation of Software Development Processes. Lecture Notes in Computer Science, 2003, , 171-180.	1.3	10
44	Activity recognition and user preference learning for automated configuration of IoT environments. , 2020, , .		10
45	Enacting Emergent Configurations in the IoT Through Domain Objects. Lecture Notes in Computer Science, 2018, , 279-294.	1.3	9
46	Software Development Process Simulation: Multi Agent-Based Simulation versus System Dynamics. Lecture Notes in Computer Science, 2010, , 73-85.	1.3	9
47	An Agent-Based Approach to Monitoring and Control of District Heating Systems. Lecture Notes in Computer Science, 2002, , 801-811.	1.3	8
48	Using the Analytic Hierarchy Process for Evaluating Multi-Agent System Architecture Candidates. Lecture Notes in Computer Science, 2006, , 205-217.	1.3	8
49	Utilising more of the loading space in intermodal line trains â€" Measures and decision support. Computers in Industry, 2013, 64, 146-154.	9.9	8
50	Agent-Based Approaches to Transport Logistics. , 2005, , 1-15.		8
51	Emergen Societies of Information Agents. Lecture Notes in Computer Science, 2000, , 143-153.	1.3	7
52	Automated Spyware Detection Using End User License Agreements. , 2008, , .		7
53	Method for quantitative valuation of road freight transport telematic services. IET Intelligent Transport Systems, 2012, 6, 388-396.	3.0	7
54	An Agent-Based Approach to Realize Emergent Configurations in the Internet of Things. Electronics (Switzerland), 2020, 9, 1347.	3.1	7

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55	PRASH: A Framework for Privacy Risk Analysis of Smart Homes. Sensors, 2021, 21, 6399.	3.8	7
56	Evaluating Multi-agent System Architectures: A Case Study Concerning Dynamic Resource Allocation. Lecture Notes in Computer Science, 2003, , 170-183.	1.3	7
57	Generic Methods for Multi-criteria Evaluation. , 2008, , .		6
58	Coordination Models for Dynamic Resource Allocation. Lecture Notes in Computer Science, 2000, , 182-197.	1.3	6
59	Analyzing the Design Space of Personal Informatics: A State-of-practice Based Classification of Existing Tools. Lecture Notes in Computer Science, 2015, , 85-97.	1.3	6
60	Optimization Analysis of Multiservice Architecture Concepts in Road Transport Telematics. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2012, 16, 197-210.	4.2	5
61	Types of Simulation. Understanding Complex Systems, 2013, , 23-36.	0.6	5
62	Emergent Configurations in the Internet of Things as System of Systems. , 2017, , .		5
63	A survey and taxonomy on intelligent surveillance from a system perspective. Knowledge Engineering Review, 2018, 33, .	2.6	5
64	Functional Classification and Quantitative Analysis of Smart Connected Home Devices. , 2018, , .		5
65	An Empirical Analysis of Smart Connected Home Data. Lecture Notes in Computer Science, 2018, , 134-149.	1.3	5
66	Interactive Machine Learning for the Internet of Things. , 2019, , .		5
67	Four Multi-agent Architectures for Intelligent Network Load Management. Lecture Notes in Computer Science, 2002, , 239-248.	1.3	5
68	A Framework for Evaluation of Multi-Agent System Approaches to Logistics Network Management. , 2004, , 27-39.		4
69	A Commitment-Based Approach to Realize Emergent Configurations in the Internet of Things. , 2017, , .		4
70	Towards Collaborative Sensing using Dynamic Intelligent Virtual Sensors. Studies in Computational Intelligence, 2017, , 217-226.	0.9	4
71	A Feature Space Focus in Machine Teaching. , 2020, , .		4
72	Learning by linear anticipation in multi-agent systems. Lecture Notes in Computer Science, 1997, , 62-72.	1.3	4

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73	Agent-Based Dantzig-Wolfe Decomposition. Lecture Notes in Computer Science, 2009, , 754-763.	1.3	4
74	Inter-Organization Interoperability in Transport Chains Using Adapters Based on Open Source Freeware. , 2006, , 35-42.		4
75	Linearly anticipatory autonomous agents. , 1997, , .		3
76	On the metaphysics of agents. , 2005, , .		3
77	Analysis of Speed Sign Classification Algorithms Using Shape Based Segmentation of Binary Images. Lecture Notes in Computer Science, 2009, , 1220-1227.	1.3	3
78	Multi-Agent-Based Simulation for Analysis of Transport Policy and Infrastructure Measures. Lecture Notes in Computer Science, 2012, , 1-15.	1.3	3
79	A Survey on the Use of Computational Models for Ex Ante Analysis of Urban Transport Policy Instruments. Procedia Computer Science, 2014, 32, 348-355.	2.0	3
80	Types of Simulation. Understanding Complex Systems, 2017, , 23-37.	0.6	3
81	Elis: An Open Platform for Mobile Energy Efficiency Services in Buildings. Sustainability, 2019, 11, 858.	3.2	3
82	Activity recognition through interactive machine learning in a dynamic sensor setting. Personal and Ubiquitous Computing, 2020, , 1.	2.8	3
83	Towards an Agent-Based Model of Passenger Transportation. Lecture Notes in Computer Science, 2016, , 132-145.	1.3	3
84	Engineering Agent-Based Social Simulations: An Introduction. Jasss, 2015, 18, .	1.8	3
85	Middleware Support for Performance Improvement of MABS Applications in the Grid Environment. Lecture Notes in Computer Science, 2007, , 20-35.	1.3	3
86	Toward cost-efficient integration of telematic systems using K-spanning tree and clustering algorithms. , 2011, , .		2
87	On the use of on-line services in transport simulation. Transportation Research Procedia, 2017, 21, 208-215.	1.5	2
88	Towards a taxonomy of interactive continual and multimodal learning for the internet of things. , 2019, , .		2
89	Towards Norm-Governed Behavior in Virtual Enterprises. Studies in Computational Intelligence, 2009, , 35-55.	0.9	2
90	Security Aspects on Inter-organizational Cooperation Using Wrapper Agents. Lecture Notes in Business Information Processing, 2009, , 220-233.	1.0	2

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91	AMORI: A Metric-based One Rule Inducer. , 2009, , .		2
92	Analyzing Distributed Deep Neural Network Deployment on Edge and Cloud Nodes in IoT Systems. , 2020, , .		2
93	A Grid Based Simulation Environment for Mobile Distributed Applications. , 2007, , .		1
94	A method for evaluation of learning components. Automated Software Engineering, 2014, 21, 41-63.	2.9	1
95	Exploring synergy relationships between telematic services and functionalities using cluster analysis. IET Intelligent Transport Systems, 2015, 9, 366-374.	3.0	1
96	Integration of Smart Home technologies for district heating control in Pervasive Smart Grids. , 2017, , .		1
97	A Privacy-Centered System Model for Smart Connected Homes. , 2020, , .		1
98	Human-Centric Emergent Configurations: Supporting the User Through Self-configuring IoT Systems. Lecture Notes in Networks and Systems, 2021, , 411-418.	0.7	1
99	Movement of People and Goods. Understanding Complex Systems, 2013, , 651-665.	0.6	1
100	Modelling Commuting Activities for the Simulation of Demand Responsive Transport in Rural Areas. , 2020, , .		1
101	A Formal Analysis of Virtual Enterprise Creation and Operation. , 2009, , 48-62.		1
102	Plug and Play Transport Chain Management: Agent-Based Support to the Planning and Execution of Transports. Communications in Computer and Information Science, 2011, , 139-155.	0.5	1
103	Agreement Technologies for Supporting the Planning and Execution of Transports. , 2013, , 533-547.		1
104	The Architecture of an Information System for the Management of Hybrid Energy Grids. , 0, , .		1
105	Multiagent Model for Agile Context Inference Based on Artificial Immune Systems and Sparse Distributed Representations. Lecture Notes in Computer Science, 2016, , 82-87.	1.3	1
106	Integrating models of discrimination and characterization. Intelligent Data Analysis, 1999, 3, 95-109.	0.9	0
107	Comparing approaches to predict transmembrane domains in protein sequences. , 2005, , .		0
108	Optimization based modeling of multi-service architecture concepts in road transport telematics. , 2009, , .		0

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109	APPrOVE: Application-oriented validation and evaluation of supervised learners. , 2010, , .		0
110	A visualization toolkit for transportation simulation systems. , 2012, , .		0
111	A Role-Based Method for Analyzing Supply Chain Models. , 2015, , 55-78.		0
112	A Criteria-Based Approach to Evaluating Road User Charging Systems. Procedia Computer Science, 2018, 130, 142-149.	2.0	0
113	Contextual machine teaching. , 2020, , .		0
114	A Taxonomy of Interactive Online Machine Learning Strategies. Lecture Notes in Computer Science, 2021, , 137-153.	1.3	0
115	A Case Study on Availability of Sensor Data in Agent Cooperation. Studies in Computational Intelligence, 2009, , 111-120.	0.9	0
116	A case study on availability of sensor data in agent cooperation. Computer Science and Information Systems, 2010, 7, 597-615.	1.0	0
117	Social Phenomena Simulation. , 2012, , 2999-3003.		0
118	Improving Multi-actor Production, Inventory and Transportation Planning through Agent-Based Optimization. Studies in Computational Intelligence, 2013, , 1-31.	0.9	0
119	Social Phenomena Simulation. , 2014, , 1-7.		0
120	Social Phenomena Simulation. , 2017, , 1-6.		0
121	Movement of People and Goods. Understanding Complex Systems, 2017, , 705-720.	0.6	0
122	System Architectures for Sensor-Based Dynamic Remaining Shelf-life Prediction. International Journal of Operations Research and Information Systems, 2019, 10, 21-38.	1.0	0
123	Evaluating Interpretability in Machine Teaching. Communications in Computer and Information Science, 2020, , 54-65.	0.5	0
124	Social Phenomena Simulation. , 2020, , 819-824.		0
125	Modelling Commuting Activities for the Simulation of Demand Responsive Transport in Rural Areas. , 2020, , .		0