Alexander Artikis

List of Publications by Year
in descending order

103 papers	1,761 citations	394421 19 h-index	395702 33 g-index
106 all docs	106 docs citations	106 times ranked	896 citing authors

#	Article	IF	Citations
1	Specifying norm-governed computational societies. ACM Transactions on Computational Logic, 2009, 10, 1-42.	0.9	145
2	Online event recognition from moving vessel trajectories. GeoInformatica, 2017, 21, 389-427.	2.7	93
3	Animated specifications of computational societies. , 2002, , .		88
4	An Event Calculus for Event Recognition. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 895-908.	5.7	77
5	Axiomatization of Socio-Economic Principles for Self-Organizing Institutions. ACM Transactions on Autonomous and Adaptive Systems, 2012, 7, 1-39.	0.8	63
6	Complex event recognition in the Big Data era: a survey. VLDB Journal, 2020, 29, 313-352.	4.1	63
7	Logic-based event recognition. Knowledge Engineering Review, 2012, 27, 469-506.	2.6	55
8	The design of intelligent socio-technical systems. Artificial Intelligence Review, 2013, 39, 5-20.	15.7	51
9	Incremental learning of event definitions with Inductive Logic Programming. Machine Learning, 2015, 100, 555-585.	5.4	49
10	Voting in Multi-Agent Systems*. Computer Journal, 2006, 49, 156-170.	2.4	47
11	A formal model of open agent societies. , 2001, , .		46
12	Probabilistic Complex Event Recognition. ACM Computing Surveys, 2018, 50, 1-31.	23.0	43
13	Dynamic specification of open agent systems. Journal of Logic and Computation, 2012, 22, 1301-1334.	0.8	39
14	Event processing under uncertainty. , 2012, , .		37
15	A probabilistic logic programming event calculus. Theory and Practice of Logic Programming, 2015, 15, 213-245.	1.5	37
16	A logic programming approach to activity recognition. , 2010, , .		36
17	Probabilistic Event Calculus for Event Recognition. ACM Transactions on Computational Logic, 2015, 16, 1-37.	0.9	34
18	Experiments in Building Experiential Trust in a Society of Objective-Trust Based Agents. Lecture Notes in Computer Science, 2001, , 111-132.	1.3	31

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19	Composite Event Recognition for Maritime Monitoring. , 2019, , .		28
20	A Protocol for Resource Sharing in Norm-Governed Ad Hoc Networks. Lecture Notes in Computer Science, 2005, , 221-238.	1.3	28
21	Specifying Electronic Societies with the Causal Calculator. Lecture Notes in Computer Science, 2003, , 1-15.	1.3	28
22	Executable specification of open multi-agent systems. Logic Journal of the IGPL, 2010, 18, 31-65.	1.5	27
23	Complex Event Recognition Languages. , 2017, , .		27
24	The Axiomatisation of Socio-Economic Principles for Self-Organising Systems. , 2011, , .		25
25	Scalable Proactive Event-Driven Decision Making. IEEE Technology and Society Magazine, 2014, 33, 35-41.	0.8	25
26	Formalization of a voting protocol for virtual organizations. , 2005, , .		24
27	An executable specification of an argumentation protocol. , 2003, , .		23
28	An executable specification of a formal argumentation protocol. Artificial Intelligence, 2007, 171, 776-804.	5.8	23
29	Run-time composite event recognition. , 2012, , .		22
30	Event Forecasting with Pattern Markov Chains. , 2017, , .		21
31	A Prototype for Credit Card Fraud Management. , 2017, , .		17
32	Logic-based representation, reasoning and machine learning for event recognition. , 2010, , .		16
33	BEHAVIOUR RECOGNITION FROM VIDEO CONTENT: A LOGIC PROGRAMMING APPROACH. International Journal on Artificial Intelligence Tools, 2010, 19, 193-209.	1.0	16
34	Self-adaptive event recognition for intelligent transport management. , 2013, , .		16
35	Formalising dynamic protocols for open agent systems. , 2009, , .		15
36	Online learning of event definitions. Theory and Practice of Logic Programming, 2016, 16, 817-833.	1.5	15

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37	Probabilistic Event Calculus Based on Markov Logic Networks. Lecture Notes in Computer Science, 2011, , 155-170.	1.3	15
38	Interaction patterns and observable commitments in a multi-agent trading scenario. , 2001, , .		14
39	Research directions in agent communication. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-23.	4.5	14
40	Countering Real-Time Stream Poisoning: An Architecture for Detecting Vessel Spoofing in Streams of AIS Data. , 2018, , .		14
41	Semi-supervised online structure learning for composite event recognition. Machine Learning, 2019, 108, 1085-1110.	5.4	13
42	Heterogeneous Stream Processing and Crowdsourcing for Traffic Monitoring: Highlights. Lecture Notes in Computer Science, 2014, , 520-523.	1.3	13
43	Interleaving multi-agent systems and social networks for organized adaptation. Computational and Mathematical Organization Theory, 2011, 17, 344-378.	2.0	12
44	Complex event recognition in the big data era. Proceedings of the VLDB Endowment, 2017, 10, 1996-1999.	3.8	12
45	Specifying Open Agent Systems: A Survey. Lecture Notes in Computer Science, 2009, , 29-45.	1.3	12
46	Behaviour Recognition using the Event Calculus. IFIP Advances in Information and Communication Technology, 2009, , 469-478.	0.7	10
47	Voting in online deliberative assemblies. , 2005, , .		9
48	Event Recognition Challenges and Techniques. ACM Transactions on Internet Technology, 2014, 14, 1-9.	4.4	9
49	$$\mathtt {OSL}\alpha $$: Online Structure Learning Using Background Knowledge Axiomatization. Lecture Notes in Computer Science, 2016, , 232-247.	1.3	9
50	Coordination, Conventions and the Self-organisation of Sustainable Institutions. Lecture Notes in Computer Science, 2011, , 202-217.	1.3	9
51	Composite Event Patterns for Maritime Monitoring. , 2018, , .		8
52	Online Learning of Weighted Relational Rules for Complex Event Recognition. Lecture Notes in Computer Science, 2019, , 396-413.	1.3	8
53	Optimizing Vessel Trajectory Compression. , 2020, , .		8
54	Initial Steps Towards Run-Time Support for Norm-Governed Systems. Lecture Notes in Computer Science, 2011, , 268-284.	1.3	8

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55	On Complex Event Processing for Real-Time Situational Awareness. Lecture Notes in Computer Science, 2011, , 114-121.	1.3	8
56	The open agent society: retrospective and prospective views. Artificial Intelligence and Law, 2015, 23, 241-270.	4.0	7
57	Parallel online event calculus learning for complex event recognition. Future Generation Computer Systems, 2019, 94, 468-478.	7.5	7
58	Agent communication transfer protocol. , 2000, , .		6
59	Being Logical or Going with the Flow? A Comparison of Complex Event Processing Systems. Lecture Notes in Computer Science, 2014, , 460-474.	1.3	6
60	Simulating Computational Societies. Lecture Notes in Computer Science, 2003, , 53-67.	1.3	6
61	Ontological Modelling for Intelligent E-learning. , 2014, , .		5
62	How not to drown in a sea of information: An event recognition approach. , 2015, , .		5
63	A probabilistic interval-based event calculus for activity recognition. Annals of Mathematics and Artificial Intelligence, 2021, 89, 29-52.	1.3	5
64	Online Learning Probabilistic Event Calculus Theories in Answer Set Programming. Theory and Practice of Logic Programming, 2023, 23, 362-386.	1.5	5
65	Complex event forecasting with prediction suffix trees. VLDB Journal, 2022, 31, 157-180.	4.1	5
66	Online Distributed Maritime Event Detection & Forecasting over Big Vessel Tracking Data. , 2021, , .		5
67	Self-Governance by Transfiguration: From Learning to Prescription Changes. , 2014, , .		4
68	Specifying and Executing Open Multi-agent Systems. Law, Governance and Technology Series, 2016, , 197-212.	0.4	4
69	Drilling Into Dashboards: Responding to Computer Recommendation in Fraud Analysis. IEEE Transactions on Human-Machine Systems, 2019, 49, 633-641.	3.5	4
70	Online Event Recognition from Moving Vehicles: Application Paper. Theory and Practice of Logic Programming, 2019, 19, 841-856.	1.5	4
71	Clinical Decision Support for Active and Healthy Ageing: An Intelligent Monitoring Approach of Daily Living Activities. Lecture Notes in Computer Science, 2015, , 128-133.	1.3	4
72	Incremental Event Calculus for Run-Time Reasoning. , 2019, , .		3

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73	Interactive Extreme-Scale Analytics: Towards Battling Cancer. IEEE Technology and Society Magazine, 2019, 38, 54-61.	0.8	3
74	Composite Maritime Event Recognition. , 2021, , 233-260.		3
75	Fine-Tuned Compressed Representations of Vessel Trajectories. , 2020, , .		3
76	PRONTO. , 2011, , .		2
77	Parallel Online Learning of Event Definitions. Lecture Notes in Computer Science, 2018, , 78-93.	1.3	2
78	Uncertainty-Aware Event Analytics over Distributed Settings. , 2019, , .		2
79	Peer Pressure as a Driver of Adaptation in Agent Societies. Lecture Notes in Computer Science, 2009, , 191-207.	1.3	2
80	The Complex Event Recognition Group. SIGMOD Record, 2018, 47, 61-66.	1.2	2
81	Implementing Multi-party Agent Conversations. Lecture Notes in Computer Science, 2000, , 4-13.	1.3	2
82	Evaluation of Maritime Event Detection Against Missing Data. Communications in Computer and Information Science, 2019, , 275-288.	0.5	2
83	Event Processing for Maritime Situational Awareness. , 2020, , 255-274.		2
84	Online fleet monitoring with scalable event recognition and forecasting. GeoInformatica, 2022, 26, 613-644.	2.7	2
85	Optimizing complex event forecasting. , 2022, , .		2
86	Engineering Organised Adaptation: A Tutorial. , 2012, , .		1
87	Incremental Reasoning for Fleet Management. , 2019, , .		1
88	Integrating Interaction Protocols and Internet Protocols for Agent-Mediated E-Commerce. Lecture Notes in Computer Science, 2001, , 47-69.	1.3	1
89	Online Structure Learning for Traffic Management. Lecture Notes in Computer Science, 2017, , 27-39.	1.3	1
90	PreSage-MS: Metric Spaces in PreSage. Lecture Notes in Computer Science, 2009, , 243-246.	1.3	1

#	Article	IF	Citations
91	A Logic-Based Approach to Activity Recognition. , 2013, , 1-13.		1
92	Complex Event Processing Methods for Process Querying. , 2022, , 479-510.		1
93	User-Oriented Evaluation of Event-Based Decision Support Systems. , 2012, , .		0
94	INTRODUCTION TO THE SPECIAL ISSUE ON EVENT RECOGNITION. Applied Artificial Intelligence, 2012, 26, 1-5.	3.2	0
95	Introduction to the special section on agent communication. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-1.	4.5	0
96	Demonstration of a Prototype for Credit Card Fraud Management. , 2017, , .		0
97	Towards Human Activity Reasoning with Computational Logic and Deep Learning. , 2018, , .		0
98	Maritime Event Recognition. , 2019, , .		0
99	Dagstuhl Seminar on the Foundations of Composite Event Recognition. SIGMOD Record, 2021, 49, 24-27.	1.2	0
100	Role Assignment in Institutional Clouds for Rule-Based Enterprise Management. Lecture Notes in Computer Science, 2011, , 237-251.	1.3	0
101	Software Support for Organised Adaptation. Lecture Notes in Computer Science, 2012, , 96-115.	1.3	0
102	Distribution and Uncertainty in Complex Event Recognition. Lecture Notes in Computer Science, 2015, , 70-80.	1.3	0
103	A Norm-Governed Systems Perspective of Ad Hoc Networks. , 2006, , 143-160.		0