

Michael Luck

List of Publications by Year in descending order

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191
papers

4,090
citations

172207

29
h-index

155451

55
g-index

203
all docs

203
docs citations

203
times ranked

2242
citing authors

#	ARTICLE	IF	CITATIONS
1	TRAVOS: Trust and Reputation in the Context of Inaccurate Information Sources. <i>Autonomous Agents and Multi-Agent Systems</i> , 2006, 12, 183-198.	1.3	382
2	Plagiarism in programming assignments. <i>IEEE Transactions on Education</i> , 1999, 42, 129-133.	2.0	205
3	Applying artificial intelligence to virtual reality: Intelligent virtual environments. <i>Applied Artificial Intelligence</i> , 2000, 14, 3-32.	2.0	199
4	A formal specification of dMARS. <i>Lecture Notes in Computer Science</i> , 1998, , 155-176.	1.0	171
5	A Manifesto for Agent Technology: Towards Next Generation Computing. <i>Autonomous Agents and Multi-Agent Systems</i> , 2004, 9, 203-252.	1.3	163
6	Agent-based formation of virtual organisations. <i>Knowledge-Based Systems</i> , 2004, 17, 103-111.	4.0	131
7	Coping with inaccurate reputation sources. , 2005, , .		118
8	The dMARS Architecture: A Specification of the Distributed Multi-Agent Reasoning System. <i>Autonomous Agents and Multi-Agent Systems</i> , 2004, 9, 5-53.	1.3	106
9	Learning in multi-agent systems. <i>Knowledge Engineering Review</i> , 2001, 16, 277-284.	2.1	98
10	An efficient and versatile approach to trust and reputation using hierarchical Bayesian modelling. <i>Artificial Intelligence</i> , 2012, 193, 149-185.	3.9	96
11	Negotiation in multi-agent systems. <i>Knowledge Engineering Review</i> , 1999, 14, 285-289.	2.1	77
12	A normative framework for agent-based systems. <i>Computational and Mathematical Organization Theory</i> , 2006, 12, 227-250.	1.5	74
13	A Probabilistic Trust Model for Handling Inaccurate Reputation Sources. <i>Lecture Notes in Computer Science</i> , 2005, , 193-209.	1.0	69
14	Constraining autonomy through norms. , 2002, , .		62
15	Crossing the agent technology chasm: Lessons, experiences and challenges in commercial applications of agents. <i>Knowledge Engineering Review</i> , 2006, 21, 345-392.	2.1	57
16	A Protocol for Recording Provenance in Service-Oriented Grids. <i>Lecture Notes in Computer Science</i> , 2005, , 124-139.	1.0	53
17	Engineering AgentSpeak(L): a formal computational model. <i>Journal of Logic and Computation</i> , 1998, 8, 233-260.	0.5	52
18	A Conceptual Framework for Agent Definition and Development. <i>Computer Journal</i> , 2001, 44, 1-20.	1.5	52

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19	Transparent Fault Tolerance for Web Services Based Architectures. Lecture Notes in Computer Science, 2002, , 889-898.	1.0	51
20	Towards a Formalisation of Electronic Contracting Environments. Lecture Notes in Computer Science, 2009, , 156-171.	1.0	50
21	Evolutionary testing of autonomous software agents. Autonomous Agents and Multi-Agent Systems, 2012, 25, 260-283.	1.3	49
22	Coalition formation through motivation and trust. , 2003, , .		48
23	Communicating open systems. Artificial Intelligence, 2012, 186, 38-94.	3.9	48
24	Formalisms for multi-agent systems. Knowledge Engineering Review, 1997, 12, 315-321.	2.1	44
25	Trust evaluation through relationship analysis. , 2005, , .		43
26	From agent theory to agent construction: A case study. Lecture Notes in Computer Science, 1997, , 49-63.	1.0	39
27	Efficient Correlation-Aware Service Selection. , 2012, , .		36
28	Agent-based virtual organisations for the Grid. Multiagent and Grid Systems, 2005, 1, 237-249.	0.5	33
29	Adaptive composition in dynamic service environments. Future Generation Computer Systems, 2018, 80, 215-228.	4.9	31
30	Engagement and cooperation in motivated agent modelling. Lecture Notes in Computer Science, 1996, , 70-84.	1.0	31
31	Personalised Grid service discovery. IET Software, 2003, 150, 252.	1.0	30
32	CONOISE: Agent-Based Formation of Virtual Organisations. , 2004, , 353-366.		30
33	AUTOMATED NEGOTIATION BETWEEN PUBLISHERS AND CONSUMERS OF GRID NOTIFICATIONS. Parallel Processing Letters, 2003, 13, 537-548.	0.4	29
34	Efficient Multi-granularity Service Composition. , 2011, , .		28
35	Agent Systems and Applications. Knowledge Engineering Review, 1998, 13, 303-308.	2.1	26
36	On the use of agents in a Bioinformatics grid. , 2003, , .		24

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37	BDI reasoning with normative considerations. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 43, 127-146.	4.3	24
38	Architectures for Negotiating Agents. , 2003, , 136-146.		24
39	A secure on-line submission system. , 1999, 29, 721-740.		23
40	A MOTIVATION-BASED PLANNING AND EXECUTION FRAMEWORK. <i>International Journal on Artificial Intelligence Tools</i> , 2004, 13, 5-25.	0.7	23
41	A Model of Normative Multi-agent Systems and Dynamic Relationships. <i>Lecture Notes in Computer Science</i> , 2004, , 259-280.	1.0	20
42	Commercial applications of agents. , 2006, , .		20
43	A formal view of social dependence networks. <i>Lecture Notes in Computer Science</i> , 1996, , 115-129.	1.0	20
44	Formalising the Contract Net as a goal-directed system. <i>Lecture Notes in Computer Science</i> , 1996, , 72-85.	1.0	20
45	Motivated Behaviour for Goal Adoption. <i>Lecture Notes in Computer Science</i> , 1998, , 58-73.	1.0	19
46	Argumentation Based Resolution of Conflicts between Desires and Normative Goals. <i>Lecture Notes in Computer Science</i> , 2009, , 19-36.	1.0	19
47	From definition to deployment: What next for agent-based systems?. <i>Knowledge Engineering Review</i> , 1999, 14, 119-124.	2.1	18
48	Engineering the emergence of norms: a review. <i>Knowledge Engineering Review</i> , 2017, 32, .	2.1	18
49	Autonomy: Variable and Generative. <i>Multiagent Systems, Artificial Societies, and Simulated Organizations</i> , 2003, , 11-28.	2.5	18
50	Agent interaction for bioinformatics data management. <i>Applied Artificial Intelligence</i> , 2001, 15, 917-947.	2.0	16
51	Modelling norms for autonomous agents. , 0, , .		16
52	Foundations of multi-agent systems: issues and directions. <i>Knowledge Engineering Review</i> , 1997, 12, 307-308.	2.1	15
53	Technology diffusion: analysing the diffusion of agent technologies. <i>Autonomous Agents and Multi-Agent Systems</i> , 2008, 17, 372-396.	1.3	15
54	Applying electronic contracting to the aerospace aftercare domain. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 1471-1487.	4.3	15

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55	Cooperative Plan Selection Through Trust. Lecture Notes in Computer Science, 1999, , 162-174.	1.0	14
56	Acting on Norm Constrained Plans. Lecture Notes in Computer Science, 2011, , 347-363.	1.0	14
57	Minimising intrusiveness in pervasive computing environments using multi-agent negotiation. , 0, , .		13
58	Composing High-Level Plans for Declarative Agent Programming. Lecture Notes in Computer Science, 2008, , 69-85.	1.0	13
59	Towards a Protocol for the Attachment of Metadata to Grid Service Descriptions and Its Use in Semantic Discovery. Scientific Programming, 2004, 12, 201-211.	0.5	12
60	A Framework for Patterns in Gaia: A Case-Study with Organisations. Lecture Notes in Computer Science, 2005, , 174-188.	1.0	12
61	Automatic submission in an evolutionary approach to computer science teaching. Computers and Education, 1995, 25, 105-111.	5.1	11
62	Agents in bioinformatics. Knowledge Engineering Review, 2005, 20, 117-125.	2.1	11
63	Graphical norms via conceptual graphs. Knowledge-Based Systems, 2012, 29, 31-43.	4.0	11
64	Establishing norms with metanorms in distributed computational systems. Artificial Intelligence and Law, 2015, 23, 367-407.	3.0	11
65	A Formal Architecture for the 3APL Agent Programming Language. Lecture Notes in Computer Science, 2000, , 168-187.	1.0	11
66	Normative Agents. Law, Governance and Technology Series, 2013, , 209-220.	0.3	11
67	Modelling the provenance of data in autonomous systems. , 2007, , .		10
68	The KCLBOT: Exploiting RGB-D Sensor Inputs for Navigation Environment Building and Mobile Robot Localization. International Journal of Advanced Robotic Systems, 2011, 8, 51.	1.3	10
69	Using Normative Markov Decision Processes for evaluating electronic contracts. AI Communications, 2012, 25, 1-17.	0.8	10
70	Designing Agent-Oriented Systems by Analysing Agent Interactions. Lecture Notes in Computer Science, 2001, , 171-183.	1.0	10
71	Software standards in undergraduate computing courses. Journal of Computer Assisted Learning, 1996, 12, 103-113.	3.3	9
72	Paradigma: agent implementation through Jini. , 0, , .		9

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73	The Agents Are All Busy Doing Stuff!. IEEE Intelligent Systems, 2007, 22, 6-7.	4.0	9
74	Overcoming Omniscience in Axelrod's Model. , 2011, , .		9
75	Declarative planning in procedural agent architectures. Expert Systems With Applications, 2013, 40, 6508-6520.	4.4	9
76	Using reputation and adaptive coalitions to support collaboration in competitive environments. Engineering Applications of Artificial Intelligence, 2015, 45, 325-338.	4.3	9
77	Quantitative Analysis of Multiagent Systems Through Statistical Model Checking. Lecture Notes in Computer Science, 2015, , 109-130.	1.0	9
78	Towards a Monitoring Framework for Agent-Based Contract Systems. Lecture Notes in Computer Science, 2008, , 292-305.	1.0	9
79	Monitoring compliance with E-contracts and norms. Artificial Intelligence and Law, 2015, 23, 161-196.	3.0	8
80	A secure on-line submission system. , 1999, 29, 721.		8
81	Autonomy: A Nice Idea in Theory. Lecture Notes in Computer Science, 2001, , 351-353.	1.0	8
82	Cooperative Interactions: An Exchange Values Model. Lecture Notes in Computer Science, 2006, , 356-371.	1.0	8
83	Determining the Trustworthiness of New Electronic Contracts. Lecture Notes in Computer Science, 2009, , 132-147.	1.0	8
84	Analyzing Contract Robustness through a Model of Commitments. Lecture Notes in Computer Science, 2011, , 17-36.	1.0	8
85	Foundations of Multi-Agent Systems: Techniques, Tools and Theory. Knowledge Engineering Review, 1998, 13, 297-302.	2.1	7
86	Guest Editorial: Challenges for Agent-Based Computing. Autonomous Agents and Multi-Agent Systems, 2004, 9, 199-201.	1.3	7
87	Impact for agents. , 2005, , .		7
88	Delivering services by building and running virtual organisations. BT Technology Journal, 2006, 24, 141-152.	0.6	7
89	Creativity Through Autonomy and Interaction. Cognitive Computation, 2012, 4, 332-346.	3.6	7
90	Efficient adaptive QoS-based service selection. Service Oriented Computing and Applications, 2014, 8, 261-276.	1.3	7

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91	Establishing norms with metanorms over interaction topologies. Autonomous Agents and Multi-Agent Systems, 2017, 31, 1344-1376.	1.3	7
92	Motivations as an Abstraction of Meta-level Reasoning. Lecture Notes in Computer Science, 2007, , 204-214.	1.0	7
93	Leveraging New Plans in AgentSpeak(PL). Lecture Notes in Computer Science, 2009, , 111-127.	1.0	7
94	Reactive Service Selection in Dynamic Service Environments. Lecture Notes in Computer Science, 2012, , 17-31.	1.0	7
95	Specifying and implementing social Web services operation using commitments. , 2012, , .		6
96	Playinghide-and-seek. , 2014, , .		6
97	A coherence maximisation process for solving normative inconsistencies. Autonomous Agents and Multi-Agent Systems, 2016, 30, 640-680.	1.3	6
98	Analysing Partner Selection Through Exchange Values. Lecture Notes in Computer Science, 2006, , 24-40.	1.0	6
99	Plan Analysis for Autonomous Sociological Agents. Lecture Notes in Computer Science, 2001, , 182-197.	1.0	6
100	Continuing research in multi-agent systems. Knowledge Engineering Review, 1999, 14, 279-283.	2.1	5
101	Multi-agent systems research into the 21st century. Knowledge Engineering Review, 2001, 16, 271-275.	2.1	5
102	The Role of Agent Interaction in Models of Computing: Panelist Reviews. Electronic Notes in Theoretical Computer Science, 2005, 141, 181-198.	0.9	5
103	From SMART to agent systems development. Engineering Applications of Artificial Intelligence, 2005, 18, 129-140.	4.3	5
104	CONOISE-G. , 2006, , .		5
105	Norm Establishment via Metanorms in Network Topologies. , 2011, , .		5
106	Analysing the Suitability of Multiagent Methodologies for e-Health Systems. Lecture Notes in Computer Science, 2013, , 134-150.	1.0	5
107	Natural Language-based Representation of User Preferences. Interacting With Computers, 2015, 27, 133-158.	1.0	5
108	Decision making with natural language based preferences and psychology-inspired heuristics. Engineering Applications of Artificial Intelligence, 2015, 42, 16-35.	4.3	5

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109	MC 2 MABS : A Monte Carlo Model Checker for Multiagent-Based Simulations. Lecture Notes in Computer Science, 2016, , 37-54.	1.0	5
110	Using Electronic Institutions to Secure Grid Environments. Lecture Notes in Computer Science, 2006, , 461-475.	1.0	5
111	Towards Motivation-Based Decisions for Worth Goals. , 2003, , 17-28.		5
112	An Agent-Based Approach to Real-Time Patient Identification for Clinical Trials. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 138-145.	0.2	5
113	Autonomous agents and multiagent systems. AI Matters, 2021, 7, 29-37.	0.4	5
114	Can models of agents be transferred between different areas?. Knowledge Engineering Review, 2000, 15, 197-203.	2.1	4
115	Progress in multi-agent systems research. Knowledge Engineering Review, 2000, 15, 285-292.	2.1	4
116	Guest editorial: Intelligent virtual environments. Applied Artificial Intelligence, 2000, 14, 1-2.	2.0	4
117	Infrastructure Support for Agent-Based Development. Lecture Notes in Computer Science, 2002, , 73-88.	1.0	4
118	Understanding decentralised control of resource allocation in a minimal multi-agent system. , 2007, , .		4
119	Optimised Reputation-Based Adaptive Punishment for Limited Observability. , 2012, , .		4
120	Self-organizing agent communities for autonomic resource management. Adaptive Behavior, 2013, 21, 3-28.	1.1	4
121	Norms, organizations, and semantics. Knowledge Engineering Review, 2013, 28, 107-116.	2.1	4
122	Negotiation strategy for continuous long-term tasks in a grid environment. Autonomous Agents and Multi-Agent Systems, 2017, 31, 130-150.	1.3	4
123	Monitoring the Impact of Norms upon Organisational Performance: A Simulation Approach. Lecture Notes in Computer Science, 2014, , 103-119.	1.0	4
124	Overcoming Omniscience for Norm Emergence in Axelrod's Metanorm Model. Lecture Notes in Computer Science, 2012, , 186-202.	1.0	4
125	Verification and Validation of Agent-Based Simulations Using Approximate Model Checking. Lecture Notes in Computer Science, 2014, , 53-70.	1.0	4
126	Adjustable Fuzzy Inference for Adaptive Grid Resource Negotiation. Studies in Computational Intelligence, 2015, , 37-57.	0.7	4

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127	Making and breaking engagements: An operational analysis of agent relationships. Lecture Notes in Computer Science, 1997, , 48-62.	1.0	4
128	Dynamically Adapting BDI Agents Based on High-Level User Specifications. Lecture Notes in Computer Science, 2012, , 139-163.	1.0	4
129	Towards Compliance of Agents in Open Multi-agent Systems. , 2006, , 132-147.		4
130	Extending Gaia with Agent Design and Iterative Development. , 2008, , 16-30.		4
131	Effective electronic marking for on-line assessment. SIGCSE Bulletin, 1998, 30, 134-138.	0.1	3
132	Motivation-Based Selection of Negotiation Opponents. Lecture Notes in Computer Science, 2005, , 119-138.	1.0	3
133	Agent-Based Computing and Programming of Agent Systems. Lecture Notes in Computer Science, 2006, , 23-37.	1.0	3
134	Annotating Cooperative Plans with Trusted Agents. Lecture Notes in Computer Science, 2003, , 87-107.	1.0	3
135	AgentPrIme: Adapting MAS Designs to Build Confidence. , 2007, , 31-43.		3
136	Transparent Provenance Derivation for User Decisions. Lecture Notes in Computer Science, 2012, , 111-125.	1.0	3
137	Automated Negotiation for Grid Notification Services. Lecture Notes in Computer Science, 2003, , 384-393.	1.0	3
138	An Agent Construction Model for Ubiquitous Computing Devices. Lecture Notes in Computer Science, 2005, , 158-173.	1.0	3
139	Motivation, Planning and Interaction. , 2006, , 163-188.		3
140	Formal Methods and Agent-Based Systems. , 2006, , 65-96.		3
141	Practical and theoretical innovations in multi-agent systems research. Knowledge Engineering Review, 2002, 17, 295-301.	2.1	2
142	Unifying Agent Systems. Annals of Mathematics and Artificial Intelligence, 2003, 37, 131-167.	0.9	2
143	Towards a motivation-based approach for evaluating goals. , 2003, , .		2
144	Agent hell: a scenario of worst practices. Computer, 2004, 37, 96-98.	1.2	2

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145	An introduction to reasoning over qualitative multi-attribute preferences. Knowledge Engineering Review, 2015, 30, 342-372.	2.1	2
146	Using MAS Technologies for Intelligent Organizations: A Report of Bottom-Up Results. Lecture Notes in Computer Science, 2006, , 1116-1127.	1.0	2
147	Motivated Agent Behaviour and Requirements Applied to Virtual Emergencies. Lecture Notes in Computer Science, 2002, , 44-60.	1.0	2
148	Flexible Behaviour Regulation in Agent Based Systems. Lecture Notes in Computer Science, 2011, , 99-113.	1.0	2
149	Weaving a Fabric of Socially Aware Agents. Lecture Notes in Computer Science, 2011, , 263-274.	1.0	2
150	User-Centric Principles in Automated Decision Making. Lecture Notes in Computer Science, 2012, , 42-51.	1.0	2
151	Establishing Norms for Network Topologies. Lecture Notes in Computer Science, 2012, , 203-220.	1.0	2
152	An Agent-Based Service Marketplace for Dynamic and Unreliable Settings. Lecture Notes in Computer Science, 2014, , 169-183.	1.0	2
153	Norm Diversity and Emergence in Tag-Based Cooperation. Lecture Notes in Computer Science, 2011, , 230-249.	1.0	2
154	Agent-Oriented Software Engineering of Distributed eHealth Systems. Lecture Notes in Computer Science, 2013, , 332-341.	1.0	2
155	Introduction to AOSE Tools for the Conference Management System. , 2008, , 164-167.		2
156	Sociological agents for effective social action. , 0, , .		1
157	Implementing Policy Management through BDI. , 2004, , 144-156.		1
158	Balancing Conflict and Cost in the Selection of Negotiation Opponents. , 0, , .		1
159	Autonomic Resource Management through Self-Organising Agent Communities. , 2008, , .		1
160	The KCLBOT: A Double Compass Self-Localizing Maneuverable Mobile Robot. , 2011, , .		1
161	Effective Cooperations Through Non-Monetary Exchanges: A Computational Framework. International Journal of Cooperative Information Systems, 2014, 23, 1450002.	0.6	1
162	A Context-Aware Approach for Personalised and Adaptive QoS Assessments. Lecture Notes in Computer Science, 2015, , 362-370.	1.0	1

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163	Graph-Based Norm Explanation. , 2011, , 35-48.		1
164	Monitoring the Impact of Norms upon Organisational Performance: A Simulation Approach. Lecture Notes in Computer Science, 2014, , 103-119.	1.0	1
165	Social Networking and Information Diffusion in Automated Markets. Lecture Notes in Business Information Processing, 2013, , 1-15.	0.8	1
166	Formal Agent Development: Framework to System. Lecture Notes in Computer Science, 2001, , 133-147.	1.0	1
167	Towards Requirements Analysis for Autonomous Agent Behaviour. Lecture Notes in Computer Science, 2002, , 179-186.	1.0	1
168	Empowered Situations of Autonomous Agents. Lecture Notes in Computer Science, 2002, , 585-595.	1.0	1
169	Evaluating Dynamic Services in Bioinformatics. Lecture Notes in Computer Science, 2006, , 183-197.	1.0	1
170	Flexible behaviour regulation in agent based systems. , 2009, , .		1
171	Arguing from Similar Positions: An Empirical Analysis. Lecture Notes in Computer Science, 2015, , 177-193.	1.0	1
172	An Investigation of Argumentation Framework Characteristics. Lecture Notes in Computer Science, 2018, , 1-16.	1.0	1
173	Modelling and simulation of aggregation nets. , 0, , .		0
174	Soft-link hypertext for information retrieval. Information and Software Technology, 2002, 44, 101-112.	3.0	0
175	BEST PAPERS FROM EUMAS 2003: THE 1ST EUROPEAN WORKSHOP ON MULTI-AGENT SYSTEMS. Applied Artificial Intelligence, 2004, 18, 775-778.	2.0	0
176	Agent-based computing for next generation apps. Iknow, 2005, 47, 24-25.	0.1	0
177	Modelling and Simulating Chained Negotiation to Enable Sharing of Notifications. , 0, , .		0
178	The agent hell: a scenario of worst-practices in agent-based software engineering. IEEE Potentials, 2005, 24, 23-26.	0.2	0
179	Report from the Eighth Agent-Oriented Software Engineering Workshop, AAMAS 2007. International Journal of Agent Oriented Software Engineering, 2007, 1, 498.	0.1	0
180	The KCLBOT: The Challenges of Stereo Vision for a Small Autonomous Mobile Robot. , 2012, , .		0

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181	Self Localization Using a 9DOF IMU Sensor With a Directional Cosine Matrix. , 2013, , .		0
182	Evaluating how agent methodologies support the specification of the normative environment through the development process. Autonomous Agents and Multi-Agent Systems, 2015, 29, 1041-1060.	1.3	0
183	Toward personalized and adaptive QoS assessments via context awareness. Computational Intelligence, 2018, 34, 468-494.	2.1	0
184	Time-sensitive resource re-allocation strategy for interdependent continuous tasks. Knowledge Engineering Review, 2019, 34, .	2.1	0
185	Electronic Business Contracts Between Services. , 2010, , 732-747.		0
186	Towards a General Model for Adapting Structure while Maintaining Topology: Pipelines. Lecture Notes in Computer Science, 2013, , 174-191.	1.0	0
187	Towards the Disruption of Plans. Lecture Notes in Computer Science, 2015, , 233-250.	1.0	0
188	Probationary Contracts: Reducing Risk in Norm-Based Systems. Lecture Notes in Computer Science, 2016, , 3-18.	1.0	0
189	Resource Re-allocation for Data Inter-dependent Continuous Tasks in Grids. Lecture Notes in Computer Science, 2017, , 187-201.	1.0	0
190	Quantitative analysis of multi-agent systems through statistical verification of simulation traces. International Journal of Agent Oriented Software Engineering, 2018, 6, 156.	0.1	0
191	Team Persuasion. Lecture Notes in Computer Science, 2018, , 159-174.	1.0	0