Michael Fisher

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Formal Specification and Verification of Autonomous Robotic Systems. ACM Computing Surveys, 2020, 52, 1-41.	23.0	153
2	Clausal temporal resolution. ACM Transactions on Computational Logic, 2001, 2, 12-56.	0.9	129
3	Model checking agent programming languages. Automated Software Engineering, 2012, 19, 5-63.	2.9	127
4	Formal verification of ethical choices in autonomous systems. Robotics and Autonomous Systems, 2016, 77, 1-14.	5.1	124
5	Verifying Multi-agent Programs by Model Checking. Autonomous Agents and Multi-Agent Systems, 2006, 12, 239-256.	2.1	118
6	A survey of concurrent MetateM $\hat{a} \in$ " The language and its applications. , 1994, , 480-505.		114
7	Formal verification of autonomous vehicle platooning. Science of Computer Programming, 2017, 148, 88-106.	1.9	92
8	Model checking agentspeak. , 2003, , .		91
9	Analysing robot swarm behaviour via probabilistic model checking. Robotics and Autonomous Systems, 2012, 60, 199-213.	5.1	84
10	Model checking multi-agent systems with MABLE. , 2002, , .		82
11	A Normal Form for Temporal Logics and its Applications in Theorem-Proving and Execution. Journal of Logic and Computation, 1997, 7, 429-456.	0.8	81
12	Practical verification of decision-making in agent-based autonomous systems. Automated Software Engineering, 2016, 23, 305-359.	2.9	77
13	On the Formal Specification and Verification of Multi-Agent Systems. International Journal of Cooperative Information Systems, 1997, 06, 37-65.	0.8	71
14	Verifying autonomous systems. Communications of the ACM, 2013, 56, 84.	4.5	68
15	MetateM: An introduction. Formal Aspects of Computing, 1995, 7, 533-549.	1.8	67
16	Resolution for temporal logics of knowledge. Journal of Logic and Computation, 1998, 8, 345-372.	0.8	55
17	Verifying autonomous systems. Communications of the ACM, 2013, 56, 84-93.	4.5	55
18	Representing and executing agent-based systems. Lecture Notes in Computer Science, 1995, , 307-323.	1.3	54

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19	On Formal Specification of Emergent Behaviours in Swarm Robotic Systems. International Journal of Advanced Robotic Systems, 2005, 2, 39.	2.1	52
20	Towards temporal verification of swarm robotic systems. Robotics and Autonomous Systems, 2012, 60, 1429-1441.	5.1	52
21	Toward Reliable Autonomous Robotic Assistants Through Formal Verification: A Case Study. IEEE Transactions on Human-Machine Systems, 2016, 46, 186-196.	3.5	51
22	Generating Certification Evidence for Autonomous Unmanned Aircraft Using Model Checking and Simulation. Journal of Aerospace Information Systems, 2014, 11, 258-279.	1.4	49
23	Model Checking Rational Agents. IEEE Intelligent Systems, 2004, 19, 46-52.	4.0	48
24	On Proactive, Transparent, and Verifiable Ethical Reasoning for Robots. Proceedings of the IEEE, 2019, 107, 541-561.	21.3	45
25	Formal Methods for the Certification of Autonomous Unmanned Aircraft Systems. Lecture Notes in Computer Science, 2011, , 228-242.	1.3	45
26	Formalisms for multi-agent systems. Knowledge Engineering Review, 1997, 12, 315-321.	2.6	44
27	COMPUTATIONAL LOGICS AND AGENTS: A ROAD MAP OF CURRENT TECHNOLOGIES AND FUTURE TRENDS. Computational Intelligence, 2007, 23, 61-91.	3.2	44
28	A Tableau-Based Proof Method for Temporal Logics of Knowledge and Belief. Journal of Applied Non-Classical Logics, 1998, 8, 225-258.	0.5	42
29	A corroborative approach to verification and validation of human–robot teams. International Journal of Robotics Research, 2020, 39, 73-99.	8.5	42
30	An introduction to executable temporal logics. Knowledge Engineering Review, 1996, 11, 43-56.	2.6	39
31	A clausal resolution method for CTL branching-time temporal logic. Journal of Experimental and Theoretical Artificial Intelligence, 1999, 11, 77-93.	2.8	39
32	Temporal Development Methods for Agent-Based. Autonomous Agents and Multi-Agent Systems, 2005, 10, 41-66.	2.1	38
33	Towards a framework for certification of reliable autonomous systems. Autonomous Agents and Multi-Agent Systems, 2021, 35, 1.	2.1	37
34	Robotics and Integrated Formal Methods: Necessity Meets Opportunity. Lecture Notes in Computer Science, 2018, , 161-171.	1.3	35
35	Combinations of Modal Logics. Artificial Intelligence Review, 2002, 17, 1-20.	15.7	34
36	Monodic temporal resolution. ACM Transactions on Computational Logic, 2006, 7, 108-150.	0.9	34

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37	MODEL CHECKING FOR MULTIAGENT SYSTEMS: THE MABLE LANGUAGE AND ITS APPLICATIONS. International Journal on Artificial Intelligence Tools, 2006, 15, 195-225.	1.0	33
38	Trustworthy Al. Lecture Notes in Computer Science, 2021, , 13-39.	1.3	32
39	Combined model checking for temporal, probabilistic, and real-time logics. Theoretical Computer Science, 2013, 503, 61-88.	0.9	31
40	An Overview of Verification and Validation Challenges for Inspection Robots. Robotics, 2021, 10, 67.	3.5	30
41	Automated Verification of Multi-Agent Programs. , 2008, , .		28
42	Equality and Monodic First-Order Temporal Logic. Studia Logica, 2002, 72, 147-156.	0.6	27
43	Mechanising first-order temporal resolution. Information and Computation, 2005, 199, 55-86.	0.7	26
44	Property-based Slicing for Agent Verification. Journal of Logic and Computation, 2009, 19, 1385-1425.	0.8	26
45	MetateM: The Story so Far. Lecture Notes in Computer Science, 2006, , 3-22.	1.3	26
46	Verifiable Self-Aware Agent-Based Autonomous Systems. Proceedings of the IEEE, 2020, 108, 1011-1026.	21.3	25
47	Model Checking Multi-Agent Programs with CASP. Lecture Notes in Computer Science, 2003, , 110-113.	1.3	25
48	A normal form for first-order temporal formulae. Lecture Notes in Computer Science, 1992, , 370-384.	1.3	24
49	A Common Semantic Basis for BDI Languages. , 2007, , 124-139.		24
50	Formal Analysis of a VANET Congestion Control Protocol through Probabilistic Verification. , 2011, , .		23
51	Autonomous Nuclear Waste Management. IEEE Intelligent Systems, 2018, 33, 47-55.	4.0	23
52	The abc of rational agent modelling. , 2002, , .		22
53	Verifying and Validating Autonomous Systems: Towards an Integrated Approach. Lecture Notes in Computer Science, 2018, , 263-281.	1.3	21
54	Probabilistic Model Checking of Robots Deployed in Extreme Environments. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8066-8074.	4.9	21

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55	A Safety Framework for Critical Systems Utilising Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 244-259.	1.3	21
56	Methodological foundations for agent-based systems. Knowledge Engineering Review, 1997, 12, 323-329.	2.6	20
57	Heterogeneous Verification of an Autonomous Curiosity Rover. Lecture Notes in Computer Science, 2020, , 353-360.	1.3	20
58	Clausal resolution in a logic of rational agency. Artificial Intelligence, 2002, 139, 47-89.	5.8	19
59	Verifiable Multi-agent Programs. Lecture Notes in Computer Science, 2004, , 72-89.	1.3	19
60	Reconfigurable Autonomy. KI - Kunstliche Intelligenz, 2014, 28, 199-207.	3.2	19
61	Concurrent MetateM — A language for modelling reactive systems. Lecture Notes in Computer Science, 1993, , 185-196.	1.3	19
62	"The Fridge Door is Openâ€â€"Temporal Verification of a Robotic Assistant's Behaviours. Lecture Notes in Computer Science, 2014, , 97-108.	1.3	19
63	Towards Temporal Verification of Emergent Behaviours in Swarm Robotic Systems. Lecture Notes in Computer Science, 2011, , 336-347.	1.3	18
64	Integrating Formal Verification and Assurance: An Inspection Rover Case Study. Lecture Notes in Computer Science, 2021, , 53-71.	1.3	18
65	Formal Verification of Probabilistic Swarm Behaviours. Lecture Notes in Computer Science, 2010, , 440-447.	1.3	18
66	A Rational Agent Controlling an Autonomous Vehicle: Implementation and Formal Verification. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 257, 35-42.	0.8	18
67	Deductive verification of simple foraging robotic behaviours. International Journal of Intelligent Computing and Cybernetics, 2009, 2, 604-643.	2.7	17
68	Verifiable Self-Certifying Autonomous Systems. , 2018, , .		17
69	Specifying and verifying distributed Intelligent systems. Lecture Notes in Computer Science, 1993, , 13-28.	1.3	16
70	Temporal Semantics for Concurrent METATEM. Journal of Symbolic Computation, 1996, 22, 627-648.	0.8	15
71	Using temporal logics of knowledge in the formal verification of security protocols. , 2004, , .		15
72	Autonomous Asteroid Exploration by Rational Agents. IEEE Computational Intelligence Magazine, 2013, 8, 25-38.	3.2	15

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73	Formal verification of a pervasive messaging system. Formal Aspects of Computing, 2014, 26, 677-694.	1.8	15
74	Satellite Control Using Rational Agent Programming. IEEE Intelligent Systems, 2010, 25, 92-97.	4.0	14
75	An introduction to executable modal and temporal logics. Lecture Notes in Computer Science, 1995, , 1-20.	1.3	14
76	On the Relationship between Â-automata and Temporal Logic Normal Forms. Journal of Logic and Computation, 2002, 12, 561-581.	0.8	13
77	Temporal Logics of Knowledge and their Applications in Security. Electronic Notes in Theoretical Computer Science, 2007, 186, 27-42.	0.9	13
78	Towards Certification of Autonomous Unmanned Aircraft Using Formal Model Checking and Simulation. , 2012, , .		13
79	Normal Forms and Proofs in Combined Modal and Temporal Logics. Lecture Notes in Computer Science, 2000, , 73-87.	1.3	13
80	A Summary of Formal Specification and Verification of Autonomous RoboticÂSystems. Lecture Notes in Computer Science, 2019, , 538-541.	1.3	13
81	A Simplified Clausal Resolution Procedure for Propositional Linear-Time Temporal Logic. Lecture Notes in Computer Science, 2002, , 85-99.	1.3	12
82	Chapter 12 Temporal Representation and Reasoning. Foundations of Artificial Intelligence, 2008, , 513-550.	0.9	11
83	Formal verification of human-robot teamwork. , 2009, , .		11
84	Modular Verification of Vehicle Platooning with Respect to Decisions, Space and Time. Communications in Computer and Information Science, 2019, , 18-36.	0.5	11
85	A Double-Level Model Checking Approach for an Agent-Based Autonomous Vehicle and Road Junction Regulations. Journal of Sensor and Actuator Networks, 2021, 10, 41.	3.9	11
86	Towards Compositional Verification for Modular Robotic Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 329, 15-22.	0.8	11
87	From the past to the future: Executing temporal logic programs. , 1992, , 369-380.		10
88	First-Order Temporal Verification in Practice. Journal of Automated Reasoning, 2005, 34, 295-321.	1.4	10
89	Temporal Reasoning in Agent-Based Systems. Foundations of Artificial Intelligence, 2005, 1, 469-495.	0.9	10
90	Guest editorial: Temporal representation and reasoning. Annals of Mathematics and Artificial Intelligence, 2006, 46, 231-234.	1.3	10

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91	Specifying and reasoning about uncertain agents. International Journal of Approximate Reasoning, 2008, 49, 35-51.	3.3	10
92	Certification of a Civil UAS: A Virtual Engineering Approach. , 2011, , .		10
93	Temporal Logic with Capacity Constraints. Lecture Notes in Computer Science, 2007, , 163-177.	1.3	10
94	Formalisation and Implementation of Road Junction Rules on an Autonomous Vehicle Modelled as an Agent. Lecture Notes in Computer Science, 2020, , 217-232.	1.3	10
95	An Interface for Programming Verifiable Autonomous Agents in ROS. Lecture Notes in Computer Science, 2020, , 191-205.	1.3	10
96	A resolution method for CTL branching-time temporal logic. , 0, , .		9
97	A Review of Verification and Validation for Space Autonomous Systems. Current Robotics Reports, 2021, 2, 273-283.	7.9	9
98	Towards Integrating Formal Verification of Autonomous Robots with Battery Prognostics and Health Management. Lecture Notes in Computer Science, 2019, , 105-124.	1.3	9
99	Programming Groups of Rational Agents. Lecture Notes in Computer Science, 2004, , 16-33.	1.3	9
100	A Common Basis for Agent Organisation in BDI Languages. Lecture Notes in Computer Science, 2008, , 71-88.	1.3	9
101	Language Constructs for Multi-agent Programming. Lecture Notes in Computer Science, 2008, , 137-156.	1.3	9
102	Uncertain Agent Verification through Probabilistic Model-Checking. Lecture Notes in Computer Science, 2009, , 162-174.	1.3	9
103	An alternative approach to concurrent theorem-proving. Machine Intelligence and Pattern Recognition, 1997, 20, 209-230.	0.2	8
104	Reasoning about agents in the KARO framework. , 0, , .		8
105	Monodic Temporal Resolution. Lecture Notes in Computer Science, 2003, , 397-411.	1.3	8
106	Automated Game Analysis via Probabilistic Model Checking: a case study. Electronic Notes in Theoretical Computer Science, 2006, 149, 125-137.	0.9	8
107	Exploring the Future with Resource-Bounded Agents. Journal of Logic, Language and Information, 2009, 18, 3-21.	0.6	8
108	Two-stage agent program verification. Journal of Logic and Computation, 2018, 28, 499-523.	0.8	8

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109	Logical Implementation of Uncertain Agents. Lecture Notes in Computer Science, 2005, , 536-547.	1.3	8
110	Reliable Decision-Making in Autonomous Vehicles. , 2020, , 105-117.		8
111	Plan Library Reconfigurability in BDI Agents. Lecture Notes in Computer Science, 2020, , 195-212.	1.3	8
112	Programming Verifiable Heterogeneous Agent Systems. Lecture Notes in Computer Science, 2009, , 40-55.	1.3	8
113	A Formal Semantics for Brahms. Lecture Notes in Computer Science, 2011, , 259-274.	1.3	8
114	Ethical Choice in Unforeseen Circumstances. Lecture Notes in Computer Science, 2014, , 433-445.	1.3	8
115	Foundations of Multi-Agent Systems: Techniques, Tools and Theory. Knowledge Engineering Review, 1998, 13, 297-302.	2.6	7
116	Tableaux for logics of time and knowledge with interactions relating to synchrony. Journal of Applied Non-Classical Logics, 2004, 14, 397-445.	0.5	7
117	Practical Reasoning for Uncertain Agents. Lecture Notes in Computer Science, 2004, , 82-94.	1.3	7
118	An Agent Based Framework for Adaptive Control and Decision Making of Autonomous Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 310-317.	0.4	7
119	CRutoN: Automatic Verification of a Robotic Assistant's Behaviours. Lecture Notes in Computer Science, 2017, , 119-133.	1.3	7
120	Security-Minded Verification of Space Systems. , 2020, , .		7
121	Toward a Holistic Approach to Verification and Validation of Autonomous Cognitive Systems. ACM Transactions on Software Engineering and Methodology, 2021, 30, 1-43.	6.0	7
122	Towards First-Order Temporal Resolution. Lecture Notes in Computer Science, 2001, , 18-32.	1.3	7
123	Towards a semantics for concurrent MetateM. Lecture Notes in Computer Science, 1995, , 86-102.	1.3	7
124	Investigating Parametric Influence on Discrete Synchronisation Protocols Using Quantitative Model Checking. Lecture Notes in Computer Science, 2017, , 224-239.	1.3	7
125	Towards the implementation of first-order temporal resolution: the expanding domain case. , 0, , .		6

126 Is There a Future for Deductive Temporal Verification?. , 2006, , .

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127	Practical First-Order Temporal Reasoning. , 2008, , .		6
128	Executable specifications of resource-bounded agents. Autonomous Agents and Multi-Agent Systems, 2010, 21, 368-396.	2.1	6
129	A roadmap to pervasive systems verification. Knowledge Engineering Review, 2015, 30, 324-341.	2.6	6
130	Distributed problem-solving as concurrent theorem proving. Lecture Notes in Computer Science, 1997, , 128-140.	1.3	6
131	Directions for Agent Model Checking*. , 2010, , 103-123.		6
132	The Power of Synchronisation: Formal Analysis of Power Consumption in Networks of Pulse-Coupled Oscillators. Lecture Notes in Computer Science, 2018, , 160-176.	1.3	6
133	Using Threat Analysis Techniques to Guide Formal Verification: A Case Study of Cooperative Awareness Messages. Lecture Notes in Computer Science, 2019, , 471-490.	1.3	6
134	Execution and Proof in a Horn-Clause Temporal Logic. Applied Logic Series, 2000, , 413-433.	0.3	6
135	"How Did They Know?â€â€"Model-Checking for Analysis of Information Leakage in Social Networks. Lecture Notes in Computer Science, 2017, , 42-59.	1.3	6
136	A model checker for linear time temporal logic. Formal Aspects of Computing, 1992, 4, 299-319.	1.8	5
137	A graph-based approach to resolution in temporal logic. , 1994, , 415-429.		5
138	Continuing research in multi-agent systems. Knowledge Engineering Review, 1999, 14, 279-283.	2.6	5
139	Characterising simple negotiation as distributed agent-based theorem-proving-a preliminary report. , 0, , .		5
140	Multi-agent systems research into the 21st century. Knowledge Engineering Review, 2001, 16, 271-275.	2.6	5
141	Organising Computation through Dynamic Grouping. Lecture Notes in Computer Science, 2004, , 117-136.	1.3	5
142	Logic-Based Agent Verification. Journal of Applied Logic, 2007, 5, 193-195.	1.1	5
143	Agent deliberation in an executable temporal framework. Journal of Applied Logic, 2011, 9, 223-238.	1.1	5
144	Where logic and agents meet. Annals of Mathematics and Artificial Intelligence, 2011, 61, 15-28.	1.3	5

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145	Certification of Safe and Trusted Robotic Inspection of Assets. , 2018, , .		5
146	Verification Within the KARO Agent Theory. NASA Monographs in Systems and Software Engineering, 2006, , 193-225.	0.1	5
147	Implementing Temporal Logics: Tools for Execution and Proof. Lecture Notes in Computer Science, 2006, , 129-142.	1.3	5
148	Verification within the KARO Agent Theory. Lecture Notes in Computer Science, 2001, , 33-47.	1.3	5
149	Agents with Bounded Temporal Resources. Lecture Notes in Computer Science, 2002, , 169-184.	1.3	5
150	Executing Logical Agent Specifications. , 2009, , 1-27.		5
151	Slicing Agent Programs for More Efficient Verification. Lecture Notes in Computer Science, 2019, , 139-157.	1.3	5
152	Searching for Invariants Using Temporal Resolution. Lecture Notes in Computer Science, 2002, , 86-101.	1.3	5
153	Verifiable Autonomy and Responsible Robotics. , 2021, , 189-217.		5
154	If Z is the answer, what could the question possibly be?. Lecture Notes in Computer Science, 1997, , 65-66.	1.3	4
155	Agent modelling in MetateM and DESIRE. Lecture Notes in Computer Science, 1998, , 193-207.	1.3	4
156	Resolution-based proof for multi-modal temporal logics of knowledge. , 0, , .		4
157	Tableaux for temporal logics of knowledge: synchronous systems of perfect recall or no learning. , 0, , .		4
158	Organising Logic-Based Agents. Lecture Notes in Computer Science, 2003, , 15-27.	1.3	4
159	Alternating automata and temporal logic normal forms. Annals of Pure and Applied Logic, 2005, 135, 263-285.	0.5	4
160	An abstract formal basis for digital crowds. Distributed and Parallel Databases, 2015, 33, 3-31.	1.6	4
161	Exploring the effects of environmental conditions and design choices on IoT systems using formal methods. Journal of Computational Science, 2020, 45, 101183.	2.9	4
162	Concurrent Metatem as a coordination language. Lecture Notes in Computer Science, 1997, , 418-421.	1.3	4

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163	Temporal Verification of Fault-Tolerant Protocols. Lecture Notes in Computer Science, 2009, , 44-56.	1.3	4
164	Algorithms for Guiding Clausal Temporal Resolution. Lecture Notes in Computer Science, 2002, , 235-249.	1.3	4
165	Handling Equality in Monodic Temporal Resolution. Lecture Notes in Computer Science, 2003, , 214-228.	1.3	3
166	Deductive temporal reasoning with constraints. Journal of Applied Logic, 2013, 11, 30-51.	1.1	3
167	Making Sense of the World: Framing Models for Trustworthy Sensor-Driven Systems. Computers, 2018, 7, 62.	3.3	3
168	Multi-scale verification of distributed synchronisation. Formal Methods in System Design, 2020, 55, 171-221.	0.8	3
169	Use and usability of software verification methods to detect behaviour interference when teaching an assistive home companion robot: A proof-of-concept study. Paladyn, 2021, 12, 402-422.	2.7	3
170	Organising Software in Active Environments. Lecture Notes in Computer Science, 2005, , 265-280.	1.3	3
171	Clausal Resolution for CTL. Lecture Notes in Computer Science, 1999, , 137-148.	1.3	3
172	Monodic ASMs and Temporal Verification. Lecture Notes in Computer Science, 2004, , 95-110.	1.3	3
173	Misplaced Trust?. Engineering & Technology Reference, 2015, , .	0.1	3
174	Safety and Certification of Unmanned Air Systems. Engineering & Technology Reference, 2015, , .	0.1	3
175	Automata representations for Concurrent METATEM. , 0, , .		2
176	The Set of Support strategy in temporal resolution. , 0, , .		2
177	Formal Verification of Astronaut-Rover Teams for Planetary Surface Operations. , 2020, , .		2
178	Increasing confidence in autonomous systems. , 2021, , .		2
179	Towards the Determination of Safe Operating Envelopes for Autonomous UAS in Offshore Inspection Missions. Robotics, 2021, 10, 97.	3.5	2
180	Dynamic Team Formation in Executable Agent-Based Systems. , 2006, , 139-158.		2

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181	Towards the Refinement of Executable Temporal Objects. IFIP Advances in Information and Communication Technology, 1997, , 439-454.	0.7	2
182	Taming the Complexity of Temporal Epistemic Reasoning. Lecture Notes in Computer Science, 2009, , 198-213.	1.3	2
183	Using Agent JPF to Build Models for Other Model Checkers. Lecture Notes in Computer Science, 2013, , 273-289.	1.3	2
184	Guiding Clausal Temporal Resolution. Applied Logic Series, 2000, , 167-184.	0.3	2
185	Coordinating Heterogeneous Components Using Executable Temporal Logic. , 2002, , 99-112.		2
186	Agile Tasking of Robotic Systems with Explicit Autonomy. Proceedings of the International Florida Artificial Intelligence Research Society Conference, 2021, 34, .	0.3	1
187	Agent Based Approaches to Engineering Autonomous Space Software. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 20, 63-67.	0.8	1
188	Logics in Al: post-proceedings JELIA06 (Editorial). Annals of Mathematics and Artificial Intelligence, 2007, 50, 227-229.	1.3	0
189	Symmetric Temporal Theorem Proving. , 2012, , .		0
190	Preface to the Special Issue on Computational Logic in Multi-Agent Systems (CLIMA XIII). Journal of Logic and Computation, 2014, 24, 1251-1252.	0.8	0
191	Direct Execution of Agent Specifications. Lecture Notes in Computer Science, 2001, , 163-163.	1.3	0
192	Parameterized verification of leader/follower systems via first-order temporal logic. Formal Methods in System Design, 2021, 58, 440-468.	0.8	0