

Rafael H Bordini

List of Publications by Year in descending order

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105
papers

2,467
citations

394421

19
h-index

345221

36
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112
all docs

112
docs citations

112
times ranked

962
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Multi-agent oriented programming with JaCaMo. <i>Science of Computer Programming</i> , 2013, 78, 747-761. | 1.9 | 256 |
| 2 | Model checking agent programming languages. <i>Automated Software Engineering</i> , 2012, 19, 5-63. | 2.9 | 127 |
| 3 | Verifying Multi-agent Programs by Model Checking. <i>Autonomous Agents and Multi-Agent Systems</i> , 2006, 12, 239-256. | 2.1 | 118 |
| 4 | Jason and the Golden Fleece of Agent-Oriented Programming. <i>Multiagent Systems, Artificial Societies, and Simulated Organizations</i> , 2005, , 3-37. | 2.5 | 100 |
| 5 | BDI Agent Programming in AgentSpeak Using Jason. <i>Lecture Notes in Computer Science</i> , 2006, , 143-164. | 1.3 | 96 |
| 6 | Model checking agentspeak. , 2003, , . | | 91 |
| 7 | Using BDI agents to improve driver modelling in a commuter scenario. <i>Transportation Research Part C: Emerging Technologies</i> , 2002, 10, 373-398. | 7.6 | 66 |
| 8 | Model Checking Rational Agents. <i>IEEE Intelligent Systems</i> , 2004, 19, 46-52. | 4.0 | 48 |
| 9 | AgentSpeak(XL). , 2002, , . | | 45 |
| 10 | COMPUTATIONAL LOGICS AND AGENTS: A ROAD MAP OF CURRENT TECHNOLOGIES AND FUTURE TRENDS. <i>Computational Intelligence</i> , 2007, 23, 61-91. | 3.2 | 44 |
| 11 | JASDL: A Practical Programming Approach Combining Agent and Semantic Web Technologies. <i>Lecture Notes in Computer Science</i> , 2009, , 91-110. | 1.3 | 37 |
| 12 | Proving BDI Properties of Agent-Oriented Programming Languages. <i>Annals of Mathematics and Artificial Intelligence</i> , 2004, 42, 197-226. | 1.3 | 35 |
| 13 | Agent-Oriented Programming with Underlying Ontological Reasoning. <i>Lecture Notes in Computer Science</i> , 2006, , 155-170. | 1.3 | 34 |
| 14 | Automated Verification of Multi-Agent Programs. , 2008, , . | | 28 |
| 15 | Property-based Slicing for Agent Verification. <i>Journal of Logic and Computation</i> , 2009, 19, 1385-1425. | 0.8 | 26 |
| 16 | Model Checking Multi-Agent Programs with CASP. <i>Lecture Notes in Computer Science</i> , 2003, , 110-113. | 1.3 | 25 |
| 17 | Proving the Asymmetry Thesis Principles for a BDI Agent-Oriented Programming Language. <i>Electronic Notes in Theoretical Computer Science</i> , 2002, 70, 108-125. | 0.9 | 24 |
| 18 | Agent programming in the cognitive era. <i>Autonomous Agents and Multi-Agent Systems</i> , 2020, 34, 1. | 2.1 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Extending the Operational Semantics of a BDI Agent-Oriented Programming Language for Introducing Speech-Act Based Communication. Lecture Notes in Computer Science, 2004, , 135-154. | 1.3 | 24 |
| 20 | Current Issues in Multi-Agent Systems Development. , 2006, , 38-61. | | 24 |
| 21 | A Common Semantic Basis for BDI Languages. , 2007, , 124-139. | | 24 |
| 22 | A normative programming language for multi-agent organisations. Annals of Mathematics and Artificial Intelligence, 2011, 62, 27-53. | 1.3 | 23 |
| 23 | A system of exchange values to support social interactions in artificial societies. , 2003, , . | | 21 |
| 24 | Modelling deception using theory of mind in multi-agent systems. AI Communications, 2019, 32, 287-302. | 1.2 | 20 |
| 25 | Verifiable Multi-agent Programs. Lecture Notes in Computer Science, 2004, , 72-89. | 1.3 | 19 |
| 26 | Dimensions in programming multi-agent systems. Knowledge Engineering Review, 2019, 34, . | 2.6 | 19 |
| 27 | From Organisation Specification to Normative Programming in Multi-Agent Organisations. Lecture Notes in Computer Science, 2010, , 117-134. | 1.3 | 18 |
| 28 | Running AgentSpeak(L) Agents on SIM_AGENT. Lecture Notes in Computer Science, 2002, , 158-174. | 1.3 | 17 |
| 29 | Programming Declarative Goals Using Plan Patterns. Lecture Notes in Computer Science, 2006, , 123-140. | 1.3 | 16 |
| 30 | Cool-AgentSpeak: Enhancing AgentSpeak-DL Agents with Plan Exchange and Ontology Services. , 2011, , . | | 15 |
| 31 | ELMS: An Environment Description Language for Multi-agent Simulation. Lecture Notes in Computer Science, 2005, , 91-108. | 1.3 | 14 |
| 32 | Knowledge Representation for Argumentation in Agent-Oriented Programming Languages. , 2016, , . | | 13 |
| 33 | A Decentralised Approach to Task Allocation Using Blockchain. Lecture Notes in Computer Science, 2018, , 75-91. | 1.3 | 13 |
| 34 | Moral Sentiments in Multi-agent Systems. Lecture Notes in Computer Science, 1999, , 113-131. | 1.3 | 13 |
| 35 | Towards Alternative Approaches to Reasoning About Goals. Lecture Notes in Computer Science, 2008, , 104-121. | 1.3 | 12 |
| 36 | Dial4JaCa – A Communication Interface Between Multi-agent Systems and Chatbots. Lecture Notes in Computer Science, 2021, , 77-88. | 1.3 | 11 |

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| 37 | A Normative Organisation Programming Language for Organisation Management Infrastructures. Lecture Notes in Computer Science, 2010, , 114-129. | 1.3 | 11 |
| 38 | Using Preferences over Sources of Information in Argumentation-Based Reasoning. , 2016, , . | | 10 |
| 39 | Model-driven engineering of multi-agent systems based on ontologies. Applied Ontology, 2017, 12, 157-188. | 2.0 | 10 |
| 40 | Reasoning in BDI agents using Toulmin's argumentation model. Theoretical Computer Science, 2020, 805, 76-91. | 0.9 | 10 |
| 41 | An Interface for Agent-Environment Interaction. Lecture Notes in Computer Science, 2012, , 139-158. | 1.3 | 10 |
| 42 | Cool-AgentSpeak: Endowing AgentSpeak-DL agents with plan exchange and ontology services. Web Intelligence and Agent Systems, 2014, 12, 83-107. | 0.4 | 9 |
| 43 | Integrating Ontologies with Multi-Agent Systems through CArtaGo Artifacts. , 2015, , . | | 9 |
| 44 | Towards Practical Argumentation-Based Dialogues in Multi-agent Systems. , 2015, , . | | 9 |
| 45 | Automating Belief Revision for AgentSpeak. Lecture Notes in Computer Science, 2006, , 61-77. | 1.3 | 9 |
| 46 | Semantic Representations of Agent Plans and Planning Problem Domains. Lecture Notes in Computer Science, 2014, , 351-366. | 1.3 | 9 |
| 47 | Towards a Computational Model of Argumentation Schemes in Agent-Oriented Programming Languages. , 2020, , . | | 9 |
| 48 | Applying ontologies to the development and execution of Multi-Agent Systems. Web Intelligence, 2017, 15, 291-302. | 0.2 | 8 |
| 49 | Using Jason to Implement a Team of Gold Miners. , 2006, , 304-313. | | 8 |
| 50 | Developing a Knowledge Management Multi-Agent System Using JaCaMo. Lecture Notes in Computer Science, 2012, , 41-57. | 1.3 | 8 |
| 51 | Predicting Plan Failure by Monitoring Action Sequences and Duration. Advances in Distributed Computing and Artificial Intelligence Journal, 2017, 6, 71-84. | 1.5 | 8 |
| 52 | Using agent- and organisation-oriented programming to develop a team of agents for a competitive game. Annals of Mathematics and Artificial Intelligence, 2010, 59, 351-372. | 1.3 | 7 |
| 53 | SMART-JaCaMo: an organization-based team for the multi-agent programming contest. Annals of Mathematics and Artificial Intelligence, 2018, 84, 75-93. | 1.3 | 7 |
| 54 | A Namespace Approach for Modularity in BDI Programming Languages. Lecture Notes in Computer Science, 2016, , 117-135. | 1.3 | 7 |

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| 55 | A Conversational Agent to Support Hospital Bed Allocation. Lecture Notes in Computer Science, 2021, , 3-17. | 1.3 | 7 |
| 56 | Engineering Explainable Agents: An Argumentation-Based Approach. Lecture Notes in Computer Science, 2022, , 273-291. | 1.3 | 7 |
| 57 | Distributed fault diagnosis for multiple mobile robots using an agent programming language. , 2015, , . | | 6 |
| 58 | Conflicting goals in agent-oriented programming. , 2016, , . | | 6 |
| 59 | Allocating structured tasks in heterogeneous agent teams. Computational Intelligence, 2019, 35, 124-155. | 3.2 | 6 |
| 60 | Dial4JaCa – A Demonstration. Lecture Notes in Computer Science, 2021, , 346-350. | 1.3 | 6 |
| 61 | Exploiting Simulation for MAS Development and Execution – The JaCaMo-Sim Approach. Lecture Notes in Computer Science, 2020, , 42-60. | 1.3 | 6 |
| 62 | RV4JaCa – Runtime Verification for Multi-Agent Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 362, 23-36. | 0.8 | 6 |
| 63 | Using the BDI Architecture to Produce Autonomous Characters in Virtual Worlds. Lecture Notes in Computer Science, 2003, , 197-201. | 1.3 | 5 |
| 64 | An Agent-Oriented Programming Language for Computing in Context. , 2006, , 61-70. | | 5 |
| 65 | The MAS-SOC Approach to Multi-agent Based Simulation. Lecture Notes in Computer Science, 2004, , 70-91. | 1.3 | 4 |
| 66 | A simulation environment for polymeric nanoparticles based on multi-agent systems. Journal of Molecular Modeling, 2019, 25, 5. | 1.8 | 4 |
| 67 | Designing Multi-Agent Systems from Ontology Models. Lecture Notes in Computer Science, 2019, , 76-95. | 1.3 | 4 |
| 68 | Spatially Distributed Normative Objects. Lecture Notes in Computer Science, 2007, , 133-146. | 1.3 | 4 |
| 69 | Developing a Team of Gold Miners Using Jason. , 2007, , 241-245. | | 4 |
| 70 | Using Jason and \mathcal{M} oise – to Develop a Team of Cowboys. Lecture Notes in Computer Science, 2009, , 238-242. | 1.3 | 4 |
| 71 | A computational model of argumentation schemes for multi-agent systems. Argument and Computation, 2021, , 1-39. | 1.1 | 4 |
| 72 | Situated normative infrastructures: the normative object approach. Journal of Logic and Computation, 2013, 23, 397-424. | 0.8 | 3 |

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| 73 | Towards Integrating Ontologies in Multi-agent Programming Platforms. , 2015, , . | | 3 |
| 74 | Allocating Social Goals Using the Contract Net Protocol in Online Multi-agent Planning. , 2016, , . | | 3 |
| 75 | Argumentation Schemes for Collaborative Debate of Requirement Risks in Software Projects. International Journal of Software Engineering and Knowledge Engineering, 2017, 27, 1613-1635. | 0.8 | 3 |
| 76 | Argumentation-Based Reasoning in BDI Agents Using Toulmin's Model. , 2018, , . | | 3 |
| 77 | Argumentation Schemes in Multi-agent Systems: A Social Perspective. Lecture Notes in Computer Science, 2018, , 92-108. | 1.3 | 3 |
| 78 | Unravelling Multi-agent-Oriented Programming. , 2014, , 259-272. | | 3 |
| 79 | Extending the Computational Study of Social Norms with a Systematic Model of Emotions. Lecture Notes in Computer Science, 2002, , 108-117. | 1.3 | 3 |
| 80 | A Distributed Normative Infrastructure for Situated Multi-agent Organisations. Lecture Notes in Computer Science, 2009, , 29-46. | 1.3 | 3 |
| 81 | Using Conceptual Spaces for Object Recognition in Multi-agent Systems. Lecture Notes in Computer Science, 2015, , 697-705. | 1.3 | 3 |
| 82 | Smart RogAgent: Where Agents and Humans Team Up. Lecture Notes in Computer Science, 2019, , 541-549. | 1.3 | 3 |
| 83 | SMARTâ€™JaCaMo: An Organisation-Based Team for the Multi-Agent Programming Contest. Lecture Notes in Computer Science, 2019, , 72-100. | 1.3 | 3 |
| 84 | AgentSpeak(ER): Enhanced Encapsulation in Agent Plans. Lecture Notes in Computer Science, 2019, , 34-51. | 1.3 | 2 |
| 85 | An Algorithm for Allocating Structured Tasks in Multi-Robot Scenarios. Smart Innovation, Systems and Technologies, 2018, , 99-109. | 0.6 | 2 |
| 86 | Spatially Distributed Normative Infrastructure. Lecture Notes in Computer Science, 2007, , 203-220. | 1.3 | 2 |
| 87 | GoDonnie: A Robot Programming Language to Improve Orientation and Mobility Skills in People Who are Visually Impaired. , 2019, , . | | 2 |
| 88 | Constrained Coalition Formation among Heterogeneous Agents for the Multi-Agent Programming Contest. , 2019, , . | | 2 |
| 89 | Argumentation as a Method for Explainable AI : A Systematic Literature Review. , 2022, , . | | 2 |
| 90 | Special issue on programming based on actors, agents and decentralized control. Science of Computer Programming, 2015, 98, 117-119. | 1.9 | 1 |

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| 91 | Towards Multi-Level Semantics for Multi-Agent Systems. <i>Electronic Notes in Theoretical Computer Science</i> , 2016, 324, 123-134. | 0.9 | 1 |
| 92 | A Chatbot that Uses a Multi-agent Organization to Support Collaborative Learning. <i>Communications in Computer and Information Science</i> , 2021, , 31-38. | 0.5 | 1 |
| 93 | Interaction Patterns in a Multi-Agent Organisation to Support Shared Tasks. <i>Lecture Notes in Computer Science</i> , 2013, , 364-370. | 1.3 | 1 |
| 94 | Evolving Populations of Agents with Personalities in the Minority Game. <i>Lecture Notes in Computer Science</i> , 2000, , 166-175. | 1.3 | 1 |
| 95 | Speech-Act Based Communication: Progress in the Formal Semantics and in the Implementation of Multi-agent Oriented Programming Languages. <i>Lecture Notes in Computer Science</i> , 2012, , 111-116. | 1.3 | 1 |
| 96 | Analysis of the Use of Events and States as Brute Facts in Modelling of Institutional Facts. <i>Lecture Notes in Computer Science</i> , 2014, , 177-192. | 1.3 | 1 |
| 97 | Analysis of the Use of Events and States as Brute Facts in Modelling of Institutional Facts. <i>Lecture Notes in Computer Science</i> , 2014, , 177-192. | 1.3 | 1 |
| 98 | Entity Relation Extraction from News Articles in Portuguese for Competitive Intelligence Based on BERT. <i>Lecture Notes in Computer Science</i> , 2021, , 449-464. | 1.3 | 1 |
| 99 | Guest editorial: Special issue on the European Workshop on Multi-Agent Systems (EUMAS). <i>Autonomous Agents and Multi-Agent Systems</i> , 2010, 20, 305-307. | 2.1 | 0 |
| 100 | Using Conceptual Spaces for Belief Update in Multi-agent Systems. , 2015, , . | | 0 |
| 101 | Use of Conceptual Representations Based on Conceptual Spaces Theory Applied to BDI Agents. , 2017, , . | | 0 |
| 102 | An Anthropological Approach to the Discovery of Ontologies in Multi-agent Societies. <i>Lecture Notes in Computer Science</i> , 2002, , 89-109. | 1.3 | 0 |
| 103 | A Multi-level Approach to the Formal Semantics of Agent Societies. <i>Lecture Notes in Computer Science</i> , 2020, , 3-17. | 1.3 | 0 |
| 104 | Disaster Response Simulation. <i>Lecture Notes in Computer Science</i> , 2020, , 434-438. | 1.3 | 0 |
| 105 | Disaster Response Simulation as a Testbed for Multi-Agent Systems. <i>Lecture Notes in Computer Science</i> , 2020, , 67-81. | 1.3 | 0 |