

# Simon Miles

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

2,153  
citations

331670

21  
h-index

265206

42  
g-index

99  
all docs

99  
docs citations

99  
times ranked

1560  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The Open Provenance Model core specification (v1.1). Future Generation Computer Systems, 2011, 27, 743-756.                   | 7.5 | 514       |
| 2  | The provenance of electronic data. Communications of the ACM, 2008, 51, 52-58.  | 4.5 | 150       |
| 3  | Provenance in Agent-Mediated Healthcare Systems. IEEE Intelligent Systems, 2006, 21, 38-46.                                   | 4.0 | 107       |
| 4  | The Requirements of Using Provenance in e-Science Experiments. Journal of Grid Computing, 2007, 5, 1-25.                      | 3.9 | 103       |
| 5  | The rationale of PROV. Web Semantics, 2015, 35, 235-257.  | 2.9 | 75        |
| 6  | A Trace-Driven Analysis of Caching in Content-Centric Networks. , 2012, , .   |     | 72        |
| 7  | Requirements for Provenance on the Web. International Journal of Digital Curation, 2012, 7, 39-56.                            | 0.2 | 61        |
| 8  | Transparent Fault Tolerance for Web Services Based Architectures. Lecture Notes in Computer Science, 2002, , 889-898.         | 1.3 | 51        |
| 9  | Towards a Formalisation of Electronic Contracting Environments. Lecture Notes in Computer Science, 2009, , 156-171.           | 1.3 | 50        |
| 10 | Evolutionary testing of autonomous software agents. Autonomous Agents and Multi-Agent Systems, 2012, 25, 260-283.             | 2.1 | 49        |
| 11 | PrIme. ACM Transactions on Software Engineering and Methodology, 2011, 20, 1-42.  | 6.0 | 44        |
| 12 | Provenance-based validation of e-science experiments. Web Semantics, 2007, 5, 28-38.  | 2.9 | 41        |
| 13 | Security Issues in a SOA-Based Provenance System. Lecture Notes in Computer Science, 2006, , 203-211.                         | 1.3 | 39        |
| 14 | Efficient Correlation-Aware Service Selection. , 2012, , .  |     | 36        |
| 15 | Adaptive composition in dynamic service environments. Future Generation Computer Systems, 2018, 80, 215-228.                  | 7.5 | 31        |
| 16 | Provenance: The Bridge Between Experiments and Data. Computing in Science and Engineering, 2008, 10, 38-46.                   | 1.2 | 30        |
| 17 | A model of process documentation to determine provenance in mash-ups. ACM Transactions on Internet Technology, 2009, 9, 1-31. | 4.4 | 30        |
| 18 | Efficient Multi-granularity Service Composition. , 2011, , .  |     | 28        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | An adaptable architecture for patient cohort identification from diverse data sources. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, e327-e333.  | 4.4 | 27        |
| 20 | Provenance-Based Validation of E-Science Experiments. Lecture Notes in Computer Science, 2005, , 801-815.  | 1.3 | 27        |
| 21 | Expert system for nutrition care process of older adults. Future Generation Computer Systems, 2018, 80, 368-383.   | 7.5 | 26        |
| 22 | Extracting causal graphs from an open provenance data model. Concurrency Computation Practice and Experience, 2008, 20, 577-586.   | 2.2 | 25        |
| 23 | Connecting Scientific Data to Scientific Experiments with Provenance. , 2007, , .  |     | 23        |
| 24 | Artificial Intelligence Technologies for Coping with Alarm Fatigue in Hospital Environments Because of Sensory Overload: Algorithm Development and Validation. Journal of Medical Internet Research, 2019, 21, e15406. | 4.3 | 22        |
| 25 | Recycling workflows and services through discovery and reuse. Concurrency Computation Practice and Experience, 2007, 19, 181-194.  | 2.2 | 19        |
| 26 | PrIme. , 2006, , .   |     | 18        |
| 27 | Engineering the emergence of norms: a review. Knowledge Engineering Review, 2017, 32, .  | 2.6 | 18        |
| 28 | Towards a Protocol for the Attachment of Semantic Descriptions to Grid Services. Lecture Notes in Computer Science, 2004, , 230-239.   | 1.3 | 17        |
| 29 | Electronically Querying for the Provenance of Entities. Lecture Notes in Computer Science, 2006, , 184-192.  | 1.3 | 16        |
| 30 | Applying electronic contracting to the aerospace aftercare domain. Engineering Applications of Artificial Intelligence, 2012, 25, 1471-1487.   | 8.1 | 15        |
| 31 | Towards a Protocol for the Attachment of Metadata to Grid Service Descriptions and Its Use in Semantic Discovery. Scientific Programming, 2004, 12, 201-211.   | 0.7 | 12        |
| 32 | Graphical norms via conceptual graphs. Knowledge-Based Systems, 2012, 29, 31-43.   | 7.1 | 11        |
| 33 | Modelling the provenance of data in autonomous systems. , 2007, , .  |     | 10        |
| 34 | Using Normative Markov Decision Processes for evaluating electronic contracts. AI Communications, 2012, 25, 1-17.  | 1.2 | 10        |
| 35 | Designing Agent-Oriented Systems by Analysing Agent Interactions. Lecture Notes in Computer Science, 2001, , 171-183.  | 1.3 | 10        |
| 36 | Reputation assessment: a review and unifying abstraction. Knowledge Engineering Review, 2018, 33, .  | 2.6 | 9         |

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|----|--|-----|-----------|
| 37 | Quantitative Analysis of Multiagent Systems Through Statistical Model Checking. Lecture Notes in Computer Science, 2015, , 109-130.  | 1.3 | 9         |
| 38 | Towards a Monitoring Framework for Agent-Based Contract Systems. Lecture Notes in Computer Science, 2008, , 292-305.   | 1.3 | 9         |
| 39 | Monitoring compliance with E-contracts and norms. Artificial Intelligence and Law, 2015, 23, 161-196.  | 4.0 | 8         |
| 40 | A service-based system for malnutrition prevention and self-management. Computer Standards and Interfaces, 2016, 48, 225-233.  | 5.4 | 8         |
| 41 | Determining the Trustworthiness of New Electronic Contracts. Lecture Notes in Computer Science, 2009, , 132-147.   | 1.3 | 8         |
| 42 | Analyzing Contract Robustness through a Model of Commitments. Lecture Notes in Computer Science, 2011, , 17-36.  | 1.3 | 8         |
| 43 | Efficient adaptive QoS-based service selection. Service Oriented Computing and Applications, 2014, 8, 261-276.   | 1.6 | 7         |
| 44 | Reactive Service Selection in Dynamic Service Environments. Lecture Notes in Computer Science, 2012, , 17-31.  | 1.3 | 7         |
| 45 | Mapping attribution metadata to the Open Provenance Model. Future Generation Computer Systems, 2011, 27, 806-811.  | 7.5 | 6         |
| 46 | Detecting False Alarms by Analyzing Alarm-Context Information: Algorithm Development and Validation. JMIR Medical Informatics, 2020, 8, e15407.  | 2.6 | 6         |
| 47 | Towards design support for provenance awareness. , 2013, , .   |     | 5         |
| 48 | Analysing the Suitability of Multiagent Methodologies for e-Health Systems. Lecture Notes in Computer Science, 2013, , 134-150.  | 1.3 | 5         |
| 49 | Decision making with natural language based preferences and psychology-inspired heuristics. Engineering Applications of Artificial Intelligence, 2015, 42, 16-35.  | 8.1 | 5         |
| 50 | MC 2 MABS : A Monte Carlo Model Checker for Multiagent-Based Simulations. Lecture Notes in Computer Science, 2016, , 37-54.  | 1.3 | 5         |
| 51 | Incorporating Mitigating Circumstances into Reputation Assessment. Communications in Computer and Information Science, 2015, , 77-93.  | 0.5 | 5         |
| 52 | Automating Provenance Capture in Software Engineering with UML2PROV. Lecture Notes in Computer Science, 2018, , 58-70.   | 1.3 | 5         |
| 53 | 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. | 0.3 | 5         |
| 54 | Negotiation strategy for continuous long-term tasks in a grid environment. Autonomous Agents and Multi-Agent Systems, 2017, 31, 130-150.   | 2.1 | 4         |

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|----|---|-----|-----------|
| 55 | Explaining reputation assessments. <i>International Journal of Human Computer Studies</i> , 2019, 123, 1-17.  | 5.6 | 4         |
| 56 | Monitoring the Impact of Norms upon Organisational Performance: A Simulation Approach. <i>Lecture Notes in Computer Science</i> , 2014, , 103-119.        | 1.3 | 4         |
| 57 | Verification and Validation of Agent-Based Simulations Using Approximate Model Checking. <i>Lecture Notes in Computer Science</i> , 2014, , 53-70.        | 1.3 | 4         |
| 58 | Adjustable Fuzzy Inference for Adaptive Grid Resource Negotiation. <i>Studies in Computational Intelligence</i> , 2015, , 37-57.                          | 0.9 | 4         |
| 59 | Informative Provenance for Repurposed Data: A Case Study using Clinical Research Data. <i>International Journal of Digital Curation</i> , 2013, 8, 27-46. | 0.2 | 4         |
| 60 | Dynamically Adapting BDI Agents Based on High-Level User Specifications. <i>Lecture Notes in Computer Science</i> , 2012, , 139-163.                      | 1.3 | 4         |
| 61 | A Provenance Model of Composite Services in Service-Oriented Environments. , 2014, , .  |     | 3         |
| 62 | AgentPrIME: Adapting MAS Designs to Build Confidence. , 2007, , 31-43.  |     | 3         |
| 63 | Provenance Model for Randomized Controlled Trials. <i>Studies in Computational Intelligence</i> , 2013, , 3-33.   | 0.9 | 3         |
| 64 | Transparent Provenance Derivation for User Decisions. <i>Lecture Notes in Computer Science</i> , 2012, , 111-125.   | 1.3 | 3         |
| 65 | An Architecture for Justified Assessments of Service Provider Reputation. , 2013, , .   |     | 2         |
| 66 | Provenance-aware pervasive computing in clinical applications. , 2013, , .  |     | 2         |
| 67 | A Distributed Service-Based System for Homecare Self-Management. <i>Lecture Notes in Computer Science</i> , 2014, , 361-366.                              | 1.3 | 2         |
| 68 | An introduction to reasoning over qualitative multi-attribute preferences. <i>Knowledge Engineering Review</i> , 2015, 30, 342-372.                       | 2.6 | 2         |
| 69 | Stereotype Reputation with Limited Observability. <i>Lecture Notes in Computer Science</i> , 2017, , 84-102.  | 1.3 | 2         |
| 70 | Flexible Behaviour Regulation in Agent Based Systems. <i>Lecture Notes in Computer Science</i> , 2011, , 99-113.  | 1.3 | 2         |
| 71 | User-Centric Principles in Automated Decision Making. <i>Lecture Notes in Computer Science</i> , 2012, , 42-51.   | 1.3 | 2         |
| 72 | An Agent-Based Service Marketplace for Dynamic and Unreliable Settings. <i>Lecture Notes in Computer Science</i> , 2014, , 169-183.                       | 1.3 | 2         |

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|----|--|-----|-----------|
| 73 | Context-Driven Assessment of Provider Reputation in Composite Provision Scenarios. Lecture Notes in Computer Science, 2015, , 53-67.   | 1.3 | 2         |
| 74 | Automatically Adapting Source Code to Document Provenance. Lecture Notes in Computer Science, 2010, , 102-110.   | 1.3 | 2         |
| 75 | Agent-Oriented Software Engineering of Distributed eHealth Systems. Lecture Notes in Computer Science, 2013, , 332-341.  | 1.3 | 2         |
| 76 | EU PROVENANCE Project: An Open Provenance Architecture for Distributed Applications. , 2007, , 45-63.  |     | 2         |
| 77 | A Reputation-based Framework for Honest Provenance Reporting. ACM Transactions on Internet Technology, 2022, 22, 1-31.   | 4.4 | 2         |
| 78 | Implementing Policy Management through BDI. , 2004, , 144-156.   |     | 1         |
| 79 | An Industrial Case Study on Provenance Awareness of Composite Services. , 2014, , .  |     | 1         |
| 80 | A Context-Aware Approach for Personalised and Adaptive QoS Assessments. Lecture Notes in Computer Science, 2015, , 362-370.  | 1.3 | 1         |
| 81 | Graph-Based Norm Explanation. , 2011, , 35-48.   |     | 1         |
| 82 | Monitoring the Impact of Norms upon Organisational Performance: A Simulation Approach. Lecture Notes in Computer Science, 2014, , 103-119.   | 1.3 | 1         |
| 83 | Provenance-Based Validation of E-Science Experiments. SSRN Electronic Journal, 0, , .  | 0.4 | 1         |
| 84 | The Rationale of PROV. SSRN Electronic Journal, 0, , .   | 0.4 | 1         |
| 85 | 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. | 2.1 | 0         |
| 86 | Modelling and Analysing Provenance Awareness Infrastructure for SOC systems. , 2015, , .   |     | 0         |
| 87 | Toward personalized and adaptive QoS assessments via context awareness. Computational Intelligence, 2018, 34, 468-494.   | 3.2 | 0         |
| 88 | Time-sensitive resource re-allocation strategy for interdependent continuous tasks. Knowledge Engineering Review, 2019, 34, .  | 2.6 | 0         |
| 89 | Towards a General Model for Adapting Structure while Maintaining Topology: Pipelines. Lecture Notes in Computer Science, 2013, , 174-191.  | 1.3 | 0         |
| 90 | Probationary Contracts: Reducing Risk in Norm-Based Systems. Lecture Notes in Computer Science, 2016, , 3-18.  | 1.3 | 0         |

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|----|--|-----|-----------|
| 91 | Resource Re-allocation for Data Inter-dependent Continuous Tasks in Grids. Lecture Notes in Computer Science, 2017, , 187-201. | 1.3 | 0         |
| 92 | Bottleneck Patterns in Provenance. Lecture Notes in Computer Science, 2018, , 212-216.   | 1.3 | 0         |