

# Paolo Missier

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115  
papers

1,727  
citations

19  
h-index

38  
g-index

137  
ext. papers

2,076  
ext. citations

2.2  
avg, IF

4.53  
L-index

#	Paper	IF	Citations
115	The Open Provenance Model core specification (v1.1). <i>Future Generation Computer Systems</i> , <b>2011</b> , 27, 743-756	7.5	396
114	Why linked data is not enough for scientists. <i>Future Generation Computer Systems</i> , <b>2013</b> , 29, 599-611	7.5	160
113	The W3C PROV family of specifications for modelling provenance metadata <b>2013</b> ,		73
112	Taverna, Reloaded. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 471-481	0.9	71
111	An overview of S-OGSA: A Reference Semantic Grid Architecture. <i>Web Semantics</i> , <b>2006</b> , 4, 102-115	2.9	50
110	YesWorkflow: A User-Oriented, Language-Independent Tool for Recovering Workflow Information from Scripts. <i>International Journal of Digital Curation</i> , <b>2015</b> , 10, 298-313	0.9	47
109	Taverna Workflows: Syntax and Semantics <b>2007</b> ,		46
108	Fine-grained and efficient lineage querying of collection-based workflow provenance <b>2010</b> ,		43
107	Clustering Web pages based on their structure. <i>Data and Knowledge Engineering</i> , <b>2005</b> , 54, 279-299	1.5	40
106	Data Lineage Model for Taverna Workflows with Lightweight Annotation Requirements. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 17-30	0.9	32
105	Why Linked Data is Not Enough for Scientists <b>2010</b> ,		31
104	Janus: From Workflows to Semantic Provenance and Linked Open Data. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 129-141	0.9	31
103	Targeted therapies for congenital myasthenic syndromes: systematic review and steps towards a treatabolome. <i>Emerging Topics in Life Sciences</i> , <b>2019</b> , 3, 19-37	3.5	25
102	Information quality in proteomics. <i>Briefings in Bioinformatics</i> , <b>2008</b> , 9, 174-88	13.4	25
101	<b>2015</b> ,		23
100	Predicting the Execution Time of Workflow Activities Based on Their Input Features <b>2012</b> ,		23
99	Electronic Government. <i>Lecture Notes in Computer Science</i> , <b>2003</b> ,	0.9	21

98	Toward a Decentralized, Trust-Less Marketplace for Brokered IoT Data Trading Using Blockchain <b>2019</b> ,		21
97	Linking multiple workflow provenance traces for interoperable collaborative science <b>2010</b> ,		20
96	Provenance and data differencing for workflow reproducibility analysis. <i>Concurrency Computation Practice and Experience</i> , <b>2016</b> , 28, 995-1015	1.4	19
95	A formal semantics for the Taverna 2 workflow model. <i>Journal of Computer and System Sciences</i> , <b>2010</b> , 76, 490-508	1	19
94	Machine learning in predicting respiratory failure in patients with COVID-19 pneumonia-Challenges, strengths, and opportunities in a global health emergency. <i>PLoS ONE</i> , <b>2020</b> , 15, e0239172	3.7	19
93	Mind my value <b>2017</b> ,		18
92	VazaDengue: An information system for preventing and combating mosquito-borne diseases with social networks. <i>Information Systems</i> , <b>2018</b> , 75, 26-42	2.7	17
91	Tracking Dengue Epidemics Using Twitter Content Classification and Topic Modelling. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 80-92	0.9	17
90	Building Scientific Workflow with Taverna and BPEL: A Comparative Study in caGrid. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 118-129	0.9	16
89	The PBase Scientific Workflow Provenance Repository. <i>International Journal of Digital Curation</i> , <b>2014</b> , 9, 28-38	0.9	16
88	Tweet My Street: A Cross-Disciplinary Collaboration for the Analysis of Local Twitter Data. <i>Future Internet</i> , <b>2014</b> , 6, 378-396	3.3	14
87	. <i>IEEE Internet Computing</i> , <b>2011</b> , 15, 40-48	2.4	14
86	ERGOT: A Semantic-Based System for Service Discovery in Distributed Infrastructures <b>2010</b> ,		14
85	Achieving reproducibility by combining provenance with service and workflow versioning <b>2011</b> ,		14
84	Improving Data Quality in Practice: A Case Study in the Italian Public Administration. <i>Distributed and Parallel Databases</i> , <b>2003</b> , 13, 135-160	0.9	13
83	Requirements and Services for Metadata Management. <i>IEEE Internet Computing</i> , <b>2007</b> , 11, 17-25	2.4	12
82	Understanding Collaborative Studies through Interoperable Workflow Provenance. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 42-58	0.9	12
81	Workflows to open provenance graphs, round-trip. <i>Future Generation Computer Systems</i> , <b>2011</b> , 27, 812-819	1.9	10

80	Recruiting from the Network: Discovering Twitter Users Who Can Help Combat Zika Epidemics. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 437-445	0.9	10
79	Increasing phenotypic annotation improves the diagnostic rate of exome sequencing in a rare neuromuscular disorder. <i>Human Mutation</i> , <b>2019</b> , 40, 1797-1812	4.7	9
78	Extracting PROV provenance traces from Wikipedia history pages <b>2013</b> ,		9
77	An ontology-based approach to handling information quality in e-Science. <i>Concurrency Computation Practice and Experience</i> , <b>2008</b> , 20, 253-264	1.4	9
76	Managing information quality in e-science <b>2007</b> ,		9
75	Java call control, coordination, and transactions <b>2000</b> , 38, 108-114		9
74	Leveraging Blockchain to Enable Smart-Health Applications <b>2018</b> ,		9
73	Scalable and efficient whole-exome data processing using workflows on the cloud. <i>Future Generation Computer Systems</i> , <b>2016</b> , 65, 153-168	7.5	8
72	The data playground: An intuitive workflow specification environment. <i>Future Generation Computer Systems</i> , <b>2009</b> , 25, 453-459	7.5	8
71	Medical image processing workflow support on the EGEE grid with taverna <b>2009</b> ,		8
70	ProvAbs: Model, Policy, and Tooling for Abstracting PROV Graphs. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 3-15	0.9	8
69	ProvGen: Generating Synthetic PROV Graphs with Predictable Structure. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 16-27	0.9	7
68	Access control and view generation for provenance graphs. <i>Future Generation Computer Systems</i> , <b>2015</b> , 49, 8-27	7.5	7
67	Brokering infrastructure for minimum cost data procurement based on quality-quantity models. <i>Decision Support Systems</i> , <b>2008</b> , 45, 95-109	5.6	7
66	Managing Information Quality in e-Science Using Semantic Web Technology. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 472-486	0.9	7
65	Fine-grain web site structure discovery <b>2003</b> ,		7
64	Capturing and querying fine-grained provenance of preprocessing pipelines in data science. <i>Proceedings of the VLDB Endowment</i> , <b>2020</b> , 14, 507-520	3.1	7
63	Distilling structure in Taverna scientific workflows: a refactoring approach. <i>BMC Bioinformatics</i> , <b>2014</b> , 15 Suppl 1, S12	3.6	6

62	Time-completeness trade-offs in record linkage using adaptive query processing <b>2009</b> ,		6
61	Incorporating Domain-Specific Information Quality Constraints into Database Queries. <i>Journal of Data and Information Quality</i> , <b>2009</b> , 1, 1-31	2.5	6
60	A PROV Encoding for Provenance Analysis Using Deductive Rules. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 67-81	0.9	6
59	TAPER: query-aware, partition-enhancement for large, heterogenous graphs. <i>Distributed and Parallel Databases</i> , <b>2017</b> , 35, 85-115	0.9	5
58	From Scripted HPC-Based NGS Pipelines to Workflows on the Cloud <b>2014</b> ,		5
57	Functional Units: Abstractions for Web Service Annotations <b>2010</b> ,		5
56	The Evolution of myExperiment <b>2010</b> ,		5
55	A Comparison of Using Taverna and BPEL in Building Scientific Workflows: the case of caGrid. <i>Concurrency Computation Practice and Experience</i> , <b>2010</b> , 22, 1098-1117	1.4	5
54	An experimental workflow development platform for historical document digitisation and analysis <b>2011</b> ,		5
53	Analyzing Provenance Across Heterogeneous Provenance Graphs. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 57-70	0.9	5
52	Clustering provenance facilitating provenance exploration through data abstraction <b>2016</b> ,		5
51	Toward trusted open data and services. <i>Internet Technology Letters</i> , <b>2019</b> , 2, e69	1.3	4
50	Measuring the impact of cognitive distractions on driving performance using time series analysis <b>2014</b> ,		4
49	A framework for analyzing virtual enterprise infrastructure <b>1999</b> ,		4
48	Knowledge-Driven Data Ecosystems Toward Data Transparency. <i>Journal of Data and Information Quality</i> , <b>2022</b> , 14, 1-12	2.5	4
47	Data trajectories: tracking reuse of published data for transitive credit attribution. <i>International Journal of Digital Curation</i> , <b>2016</b> , 11, 1-16	0.9	4
46	Measuring Data Completeness for Microbial Genomics Database. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 186-195	0.9	4
45	Managing Information Quality in e-Science: A Case Study in Proteomics. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 423-432	0.9	4

44	Semantic Support for Meta-Scheduling in Grids <b>2007</b> , 169-183		4
43	Selective and Recurring Re-computation of Big Data Analytics Tasks: Insights from a Genomics Case Study. <i>Big Data Research</i> , <b>2018</b> , 13, 76-94	3.7	3
42	Analyzing Social Network Images with Deep Learning Models to Fight Zika Virus. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 605-610	0.9	3
41	On strategies for budget-based online annotation in human activity recognition <b>2014</b> ,		3
40	Grid metadata management: Requirements and architecture <b>2007</b> ,		3
39	The Lifecycle of Provenance Metadata and Its Associated Challenges and Opportunities. <i>Springer Proceedings in Business and Economics</i> , <b>2016</b> , 127-137	0.2	3
38	DataONE: A Data Federation with Provenance Support. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 230-234	0.9	3
37	Using Wearable Activity Trackers to Predict Type 2 Diabetes: Machine Learning-Based Cross-sectional Study of the UK Biobank Accelerometer Cohort. <i>JMIR Diabetes</i> , <b>2021</b> , 6, e23364	2.7	3
36	A Platform for Analysing Stream and Historic Data with Efficient and Scalable Design Patterns <b>2014</b> ,		2
35	<b>2009</b> ,		2
34	The panel of experts cloud pattern <b>2011</b> ,		2
33	Towards the Management of Information Quality in Proteomics <b>2006</b> ,		2
32	The Service to Businesses Project: Improving Government-to-Business Relationships in Italy. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 468-471	0.9	2
31	Exploiting Provenance to Make Sense of Automated Decisions in Scientific Workflows. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 174-185	0.9	2
30	Measuring Population-Based Completeness for Single Nucleotide Polymorphism (SNP) Databases. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 173-182	0.8	2
29	eScience <b>2011</b> , 701-736		2
28	Reference Architectures to Measure Data Completeness across Integrated Databases. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 216-225	0.9	2
27	SVI: A Simple Single-Nucleotide Human Variant Interpretation Tool for Clinical Use. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 180-194	0.9	2

26	A Linked Data Approach to Sharing Workflows and Workflow Results. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 340-354	0.9	2
25	Abstracting PROV provenance graphs: A validity-preserving approach. <i>Future Generation Computer Systems</i> , <b>2020</b> , 111, 352-367	7.5	2
24	Versioned-PROV: A PROV Extension to Support Mutable Data Entities. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 87-100	0.9	2
23	Why-Diff: Exploiting Provenance to Understand Outcome Differences From Non-Identical Reproduced Workflows. <i>IEEE Access</i> , <b>2019</b> , 7, 34973-34990	3.5	1
22	Simulating Taverna workflows using stochastic process algebras. <i>Concurrency Computation Practice and Experience</i> , <b>2011</b> , 23, 1920-1935	1.4	1
21	Provider issues in quality-constrained data provisioning <b>2005</b> ,		1
20	CitiTime: a system for rapid creation of portable next-generation telephony services. <i>Computer Networks</i> , <b>2001</b> , 35, 579-595	5.4	1
19	Accelerating Disease Gene Identification Through Integrated SNP Data Analysis <b>2007</b> , 215-230		1
18	An Overview of S-OGSA: A Reference Semantic Grid Architecture. <i>SSRN Electronic Journal</i> ,	1	1
17	A Customisable Pipeline for Continuously Harvesting Socially-Minded Twitter Users. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 91-106	0.9	1
16	Provenance Storage, Querying, and Visualization in PBase. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 239-241	0.9	1
15	Workflows for Information Integration in the Life Sciences. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 215-225	0.9	1
14	Provenance-Based Searching and Ranking for Scientific Workflows. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 209-214	0.9	1
13	Preserving the Value of Large Scale Data Analytics over Time Through Selective Re-computation. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 65-77	0.9	1
12	Data Provenance in Scientific Workflows <b>2009</b> , 46-59		1
11	Detecting Duplicate Records in Scientific Workflow Results. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 126-138	0.9	1
10	Report from the second workshop on scalable workflow enactment engines and technology (SWEETU3). <i>SIGMOD Record</i> , <b>2014</b> , 42, 73-77	1.1	0
9	A customisable pipeline for the semi-automated discovery of online activists and social campaigns on Twitter. <i>World Wide Web</i> , <b>2021</b> , 24, 1-37	2.9	0

- 8 Report from the first workshop on scalable workflow enactment engines and technology (SWEETU2). *SIGMOD Record*, **2013**, 41, 60-64 1.1
- 7 Architectural Patterns for the Semantic Grid **2007**, 119-134
- 6 Metadata Management in S-OGSA. *Lecture Notes in Computer Science*, **2007**, 712-719 0.9
- 5 Provenance Annotation and Analysis to Support Process Re-computation. *Lecture Notes in Computer Science*, **2018**, 3-15 0.9
- 4 Report on the First International Workshop on Incremental Re-computation. *SIGMOD Record*, **2019**, 47, 35-38 1.1
- 3 The Right (Provenance) Hammer for the Job: A Comparison of Data Provenance Instrumentation. *Advanced Information and Knowledge Processing*, **2021**, 25-45 0.3
- 2 Modelling Provenance Using Structured Occurrence Networks. *Lecture Notes in Computer Science*, **2012**, 183-197 0.9
- 1 Forget Dimensions: Define Your Information Quality Using Quality View Patterns. *Synthese Library*, **2014**, 25-41 0.2