

David De Roure

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.

185
papers

3,566
citations

30
h-index

54
g-index

207
ext. papers

4,326
ext. citations

2.9
avg, IF

5.52
L-index

#	Paper	IF	Citations
185	Ontological user profiling in recommender systems. <i>ACM Transactions on Information Systems</i> , 2004 , 22, 54-88	4.8	432
184	The design and realisation of the Experimentmy Virtual Research Environment for social sharing of workflows. <i>Future Generation Computer Systems</i> , 2009 , 25, 561-567	7.5	307
183	myExperiment: a repository and social network for the sharing of bioinformatics workflows. <i>Nucleic Acids Research</i> , 2010 , 38, W677-82	20.1	201
182	Why linked data is not enough for scientists. <i>Future Generation Computer Systems</i> , 2013 , 29, 599-611	7.5	160
181	The Semantic Grid: Past, Present, and Future. <i>Proceedings of the IEEE</i> , 2005 , 93, 669-681	14.3	104
180	Zooniverse 2014 ,		96
179	Security Risk Assessment in Internet of Things Systems. <i>IT Professional</i> , 2017 , 19, 20-26	1.9	87
178	Research Objects: Towards Exchange and Reuse of Digital Knowledge. <i>Nature Precedings</i> , 2010 ,		65
177	The Semantic Grid: A Future e-Science Infrastructure437-470		59
176	Future developments in cyber risk assessment for the internet of things. <i>Computers in Industry</i> , 2018 , 102, 14-22	11.6	58
175	Mapping the Values of IoT. <i>Journal of Information Technology</i> , 2018 , 33, 345-360	2.7	48
174	Software Design for Empowering Scientists. <i>IEEE Software</i> , 2009 , 26, 88-95	1.5	46
173	Taverna Workflows: Syntax and Semantics 2007 ,		46
172	The Evolution of the Grid65-100		45
171	2010 ,		42
170	Ontology-Based Recommender Systems 2009 , 779-796		42
169	Bringing chemical data onto the Semantic Web. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 939-52	6.1	42

168	Web Service Grids: an evolutionary approach. <i>Concurrency Computation Practice and Experience</i> , 2005 , 17, 377-389	1.4	40
167	Designing the myExperiment Virtual Research Environment for the Social Sharing of Workflows 2007 ,		39
166	E-Science: the grid and the Semantic Web. <i>IEEE Intelligent Systems</i> , 2004 , 19, 65-71	4.2	39
165	2010 ,		38
164	COVID-19 what have we learned? The rise of social machines and connected devices in pandemic management following the concepts of predictive, preventive and personalized medicine. <i>EPMA Journal</i> , 2020 , 11, 311-332	8.8	37
163	The semantic smart laboratory: a system for supporting the chemical eScientist. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 3284-93	3.9	35
162	. <i>Computing in Science and Engineering</i> , 2013 , 15, 74-80	1.5	34
161	. <i>IEEE Intelligent Systems</i> , 2013 , 28, 100-104	4.2	34
160	Why workflows break □Understanding and combating decay in Taverna workflows 2012 ,		34
159	An e-science environment for service crystallography--from submission to dissemination. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 1006-16	6.1	33
158	Why Linked Data is Not Enough for Scientists 2010 ,		31
157	Artificial intelligence in cyber physical systems. <i>AI and Society</i> , 2020 , 36, 1-14	2.1	31
156	Cyber risk at the edge: current and future trends on cyber risk analytics and artificial intelligence in the industrial internet of things and industry 4.0 supply chains. <i>Cybersecurity</i> , 2020 , 3,	5	30
155	Data mining and analysis of scientific research data records on Covid-19 mortality, immunity, and vaccine development - In the first wave of the Covid-19 pandemic. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2020 , 14, 1121-1132	8.9	29
154	A semantic sensor web for environmental decision support applications. <i>Sensors</i> , 2011 , 11, 8855-87	3.8	29
153	Artificial intelligence and machine learning in dynamic cyber risk analytics at the edge. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	29
152	Transparent Fault Tolerance for Web Services Based Architectures. <i>Lecture Notes in Computer Science</i> , 2002 , 889-898	0.9	29
151	myExperiment: Defining the Social Virtual Research Environment 2008 ,		28

150	Organisational Sustainability Modelling for Return on Investment (ROI): Case Studies Presented by a National Health Service (NHS) Trust UK. <i>Journal of Computing and Information Technology</i> , 2011 , 19,	0.4	26
149	FloodNet: Coupling Adaptive Sampling with Energy Aware Routing in a Flood Warning System. <i>Journal of Computer Science and Technology</i> , 2007 , 22, 121-130	1.7	25
148	Experiences with GRIA - Industrial Applications on a Web Services Grid		25
147	The Grid. <i>SIGMOD Record</i> , 2002 , 31, 65-70	1.1	25
146	The Financial Clouds Review. <i>International Journal of Cloud Applications and Computing</i> , 2011 , 1, 41-63	3.1	25
145	A Semantically Enabled Service Architecture for Mashups over Streaming and Stored Data. <i>Lecture Notes in Computer Science</i> , 2011 , 300-314	0.9	25
144	Case Studies and Organisational Sustainability Modelling Presented by Cloud Computing Business Framework. <i>International Journal of Web Services Research</i> , 2011 , 8, 26-53	0.8	23
143	A Grid Service Infrastructure for Mobile Devices 2005 ,		22
142	MEMOIR An open framework for enhanced navigation of distributed information. <i>Information Processing and Management</i> , 2001 , 37, 53-74	6.3	22
141	Structuring research methods and data with the research object model: genomics workflows as a case study. <i>Journal of Biomedical Semantics</i> , 2014 , 5, 41	2.2	21
140	The literacy fieldtrip 2006 ,		21
139	UbiComp in opportunity spaces 2006 ,		21
138	Towards open science: the myExperiment approach. <i>Concurrency Computation Practice and Experience</i> , 2010 , 22, 2335-2353	1.4	19
137	Parallel implementation of a genetic-programming based tool for symbolic regression. <i>Information Processing Letters</i> , 1998 , 66, 299-307	0.8	18
136	Linking in context 2001 ,		18
135	Enhancing Services and Applications with Knowledge and Semantics 2004 , 431-458		18
134	ServiceMap: Providing Map and GPS Assistance to Service Composition in Bioinformatics 2011 ,		17
133	Ontology-based Recommender Systems 2004 , 477-498		17

132	A Service Identification Framework for Legacy System Migration into SOA 2010 ,		16
131	Elements of a computational infrastructure for social simulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 3797-812	3	16
130	Using audio to support animated route information in a hospital touch-screen kiosk. <i>Computers in Human Behavior</i> , 2010 , 26, 753-759	7.7	16
129	No technical understanding required: Helping users make informed choices about access to their personal data 2014 ,		16
128	Audio Technology and Mobile Human Computer Interaction. <i>International Journal of Mobile Human Computer Interaction</i> , 2017 , 9, 25-40	0.8	15
127	Unfolding understandings 2006 ,		15
126	Observing social machines part 1 2013 ,		14
125	A Card Based Metaphor for Organising Pervasive Educational Experiences 2007 ,		13
124	The ethics of shared Covid-19 risks: an epistemological framework for ethical health technology assessment of risk in vaccine supply chain infrastructures. <i>Health and Technology</i> , 2021 , 11, 1-9	2.1	13
123	CombeChem: A Case Study in Provenance and Annotation Using the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2006 , 270-277	0.9	13
122	Open information services. <i>Computer Networks</i> , 1996 , 28, 1027-1036		12
121	The Semantic Grid: Past, Present and Future. <i>Lecture Notes in Computer Science</i> , 2005 , 726-726	0.9	12
120	The evolution of the Web and implications for eResearch. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 991-1001	3	11
119	The future of scholarly communications. <i>Insights: the UKSG Journal</i> , 2014 , 27, 233-238	1.3	11
118	Capturing the workflows of music information retrieval for repeatability and reuse. <i>Journal of Intelligent Information Systems</i> , 2013 , 41, 435-459	2.1	10
117	Observing Social Machines Part 2 2015 ,		10
116	Building a Distributed Infrastructure for Scalable Triple Stores. <i>Journal of Computer Science and Technology</i> , 2009 , 24, 447-462	1.7	10
115	2011 ,		10

114	Where have you been from here? Trials in hypertext systems. <i>ACM Computing Surveys</i> , 1999 , 31, 11	13.4	10
113	Design of a dynamic and self-adapting system, supported with artificial intelligence, machine learning and real-time intelligence for predictive cyber risk analytics in extreme environments □ cyber risk in the colonisation of Mars. <i>Safety in Extreme Environments</i> , 2020 , 2, 219-230	0.8	10
112	Epistemological and Bibliometric Analysis of Ethics and Shared Responsibility□Health Policy and IoT Systems. <i>Sustainability</i> , 2021 , 13, 8355	3.6	10
111	Executable Music Documents 2014 ,		9
110	2006 ,		9
109	User Choices for Modalities of Instructional Information 2006 ,		9
108	Minimising intrusiveness in pervasive computing environments using multi-agent negotiation		9
107	. <i>IEEE Intelligent Systems</i> , 2004 , 19, 24-25	4.2	9
106	On the use of agents in a BioInformatics grid 2003 ,		9
105	COLLABORATION IN THE SEMANTIC GRID: A BASIS FOR e-LEARNING. <i>Applied Artificial Intelligence</i> , 2005 , 19, 881-904	2.3	9
104	Digital twins: artificial intelligence and the IoT cyber-physical systems in Industry 4.0. <i>International Journal of Intelligent Robotics and Applications</i> ,1	1.7	9
103	ReputationNet: Reputation-Based Service Recommendation for e-Science. <i>IEEE Transactions on Services Computing</i> , 2015 , 8, 439-452	4.8	8
102	ReputationNet: A Reputation Engine to Enhance ServiceMap by Recommending Trusted Services 2012 ,		8
101	The evolution of hypertext link services. <i>ACM Computing Surveys</i> , 1999 , 31, 9	13.4	8
100	Design of a concurrent and distributed language. <i>Lecture Notes in Computer Science</i> , 1993 , 233-259	0.9	8
99	A Pragmatic Approach for the Semantic Description and Matching of Pervasive Resources. <i>Lecture Notes in Computer Science</i> , 2008 , 434-446	0.9	8
98	Alternative mental health therapies in prolonged lockdowns: narratives from Covid-19. <i>Health and Technology</i> , 2021 , 11, 1-7	2.1	8
97	Hello cleveland! Linked data publication of live music archives 2013 ,		7

96	Working out the plot 2014 ,		7
95	Towards computational research objects 2013 ,		7
94	An e-Research approach to Web-scale music analysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 3300-17	3	7
93	Benchmarking workflow discovery: a case study from bioinformatics. <i>Concurrency Computation Practice and Experience</i> , 2009 , 21, 2052-2069	1.4	7
92	e-Science and the Web. <i>Computer</i> , 2010 , 43, 90-93	1.6	7
91	Ontologies as facilitators for repurposing web documents. <i>International Journal of Human Computer Studies</i> , 2007 , 65, 537-562	4.6	7
90	A reusable, extensible infrastructure for augmented field trips		7
89	Accelerating Scientists Knowledge Turns. <i>Communications in Computer and Information Science</i> , 2013 , 3-25	0.3	7
88	Research Objects: Towards Exchange and Reuse of Digital Knowledge		7
87	Epistemological Equation for Analysing Uncontrollable States in Complex Systems: Quantifying Cyber Risks from the Internet of Things.. <i>The Review of Socionetwork Strategies</i> , 2021 , 15, 381-411	0.6	7
86	Archetypal Narratives in Social Machines 2015 ,		6
85	Music and Science 2015 ,		6
84	Scientific Social Objects: The Social Objects and Multidimensional Network of the myExperiment Website 2011 ,		6
83	NeXeme: A distributed scheme based on Nexus. <i>Lecture Notes in Computer Science</i> , 1997 , 581-590	0.9	6
82	An open architecture for supporting collaboration on the Web		6
81	Designing Energy-Aware Adaptive Routing for Wireless Sensor Networks 2006 ,		6
80	A semantic datagrid for combinatorial chemistry 2005 ,		6
79	Extending Pervasive Devices with the Semantic Grid: A Service Infrastructure Approach 2006 ,		6

78	Contextually Aware Information Delivery in Pervasive Computing Environments. <i>Lecture Notes in Computer Science</i> , 2005 , 189-197	0.9	6
77	A Storm in an IoT Cup: The Emergence of Cyber-Physical Social Machines. <i>SSRN Electronic Journal</i> , 2018 ,	1	6
76	Software in reproducible research 2014 ,		5
75	MyExperimentalScience, extending the workflow. <i>Concurrency Computation Practice and Experience</i> , 2013 , 25, 481-496	1.4	5
74	The Evolution of myExperiment 2010 ,		5
73	Providing Map and GPS Assistance to Service Composition in Bioinformatics 2011 ,		5
72	A Comparison of Using Taverna and BPEL in Building Scientific Workflows: the case of caGrid. <i>Concurrency Computation Practice and Experience</i> , 2010 , 22, 1098-1117	1.4	5
71	Sharing code through first-class environments 1996 ,		5
70	1996 ,		5
69	The Financial Clouds Review 2012 , 1062-1083		5
68	Artificial Intelligence and the Internet of Things in Industry 4.0. <i>CCF Transactions on Pervasive Computing and Interaction</i> , 2021 , 3, 329-338	1.8	5
67	Dynamic real-time risk analytics of uncontrollable states in complex internet of things systems: cyber risk at the edge. <i>Environment Systems and Decisions</i> , 2020 , 41, 1-12	4.1	5
66	Knowledge Discovery for Biology with Taverna 2007 , 355-395		5
65	Supporting the Running and Analysis of Trials of Web-Based Behavioural Interventions: The LifeGuide 2009 ,		4
64	Century-of-Information Research (CIR): A Strategy for Research and Innovation in the Century of Information. <i>Prometheus</i> , 2009 , 27, 27-45	0	4
63	Exact tests for two-way symmetric contingency tables. <i>Statistics and Computing</i> , 1998 , 8, 391-399	1.8	4
62	Its about time 2001 ,		4
61	A Framework for the Preservation of a Docker Container. <i>International Journal of Digital Curation</i> , 2017 , 12, 125-135	0.9	4

60	A Semantic Service Matching Middleware for Mobile Devices Discovering Grid Services. <i>Lecture Notes in Computer Science</i> , 2008 , 422-433	0.9	4
59	e-Science and the Semantic Web: A Symbiotic Relationship. <i>Lecture Notes in Computer Science</i> , 2006 , 1-12	0.9	4
58	A Model-Driven Architecture Approach to the Efficient Identification of Services on Service-Oriented Enterprise Architecture 2010 ,		3
57	A decentralised DC optimal power flow model 2008 ,		3
56	Supporting ad-hoc resource sharing on the Web. <i>ACM Transactions on Internet Technology</i> , 2007 , 7, 11	3.8	3
55	Semantic Grid—the convergence of technologies. <i>Web Semantics</i> , 2006 , 4, 82-83	2.9	3
54	When open hypermedia meets peer-to-peer computing 2004 ,		3
53	Content-based navigation of music using melodic pitch contours. <i>Multimedia Systems</i> , 2000 , 8, 190-200	2.2	3
52	A Music Theory Ontology 2018 ,		3
51	Applying Open Hypertext Principles to the WWW. <i>Workshops in Computing</i> , 1996 , 174-181		3
50	Numbers in places 2016 ,		2
49	Towards a Cyberphysical Web Science 2019 ,		2
48	A Network of Noise 2017 ,		2
47	Tracking and annotation in skills-based learning environments 2009 ,		2
46	Enhancing Grid Service Discovery with a Semantic Wiki and the Concept Matching Approach 2009 ,		2
45	Combining System Introspection with User-Provided Description to Support Configuration and Understanding of Pervasive systems 2008 ,		2
44	Supporting Domain Experts in Creating Pervasive Experiences 2007 ,		2
43	2007 ,		2

42	Grid-enabling an existing instrument-based national service		2
41	The significance of linking. <i>ACM Computing Surveys</i> , 1999 , 31, 10	13.4	2
40	An open framework for integrating widely distributed hypermedia resources		2
39	2.2 The New e-Research 2010 , 72-74		2
38	Weaving the Pervasive Information Fabric. <i>Lecture Notes in Computer Science</i> , 2000 , 87-95	0.9	2
37	A Semantic Framework for Priority-Based Service Matching in Pervasive Environments. <i>Lecture Notes in Computer Science</i> , 2007 , 783-793	0.9	2
36	Designing a Personalized Semantic Web Browser. <i>Lecture Notes in Computer Science</i> , 2008 , 333-336	0.9	2
35	SemWeB: A Semantic Web Browser for Supporting the Browsing of Users Using Semantic and Adaptive Links. <i>Lecture Notes in Computer Science</i> , 2008 , 431-436	0.9	2
34	Intrusiveness Management for Focused, Efficient, and Enjoyable Activities. <i>Lecture Notes in Computer Science</i> , 2007 , 143-157	0.9	2
33	eScience 2011 , 701-736		2
32	Turning numbers into notes 2015 ,		2
31	A Linked Data Approach to Sharing Workflows and Workflow Results. <i>Lecture Notes in Computer Science</i> , 2010 , 340-354	0.9	2
30	What Determines the Perception of Segmentation in Contemporary Music?. <i>Frontiers in Psychology</i> , 2020 , 11, 1001	3.4	2
29	Music SOFA 2018 ,		2
28	Super-forecasting the Technological singularity risks from artificial intelligence. <i>Evolving Systems</i> ,	2.1	2
27	2016 ,		1
26	Experimental Humanities: An Adventure with Lovelace and Babbage 2017 ,		1
25	Simulating Taverna workflows using stochastic process algebras. <i>Concurrency Computation Practice and Experience</i> , 2011 , 23, 1920-1935	1.4	1

24	Semantic Grid and sensor Grid: Insights into the e-Research ecosystem 2010 ,		1
23	2011 ,		1
22	2009 ,		1
21	Managing very large distributed data sets on a data grid. <i>Concurrency Computation Practice and Experience</i> , 2009 , 22, n/a-n/a	1.4	1
20	A pragmatic approach for the semantic description and matching of pervasive resources. <i>International Journal of Pervasive Computing and Communications</i> , 2010 , 6, 19-46	3.3	1
19	The Collaborative Semantic Grid		1
18	Memetic: Semantic Meeting Memory 2006 ,		1
17	Adaptive Sampling and Routing in a Floodplain Monitoring Sensor Network		1
16	Sharing code through first-class environments. <i>ACM SIGPLAN Notices</i> , 1996 , 31, 251-261	0.2	1
15	The role of distributed Lisp in open hypermedia information systems. <i>Lecture Notes in Computer Science</i> , 1996 , 330-335	0.9	1
14	SoFAR 2003 , 49-67		1
13	Musical Part Classification in Content Based Systems. <i>Lecture Notes in Computer Science</i> , 2000 , 66-76	0.9	1
12	e-Science and the Semantic Web: A Symbiotic Relationship. <i>Lecture Notes in Computer Science</i> , 2006 , 12-12	0.9	1
11	Managing Very-Large Distributed Datasets. <i>Lecture Notes in Computer Science</i> , 2008 , 775-792	0.9	1
10	An open framework for collaborative distributed information management. <i>Computer Networks</i> , 1998 , 30, 624-625		0
9	Methodology for integrating artificial intelligence in healthcare systems: learning from COVID-19 to prepare for Disease X. <i>AI and Ethics</i> , 2021 , 1-8	2	0
8	Supporting e-Science Using Semantic Web Technologies □The Semantic Grid. <i>Annals of Information Systems</i> , 2010 , 1-28		0
7	A Landscape of Design: Interaction, Interpretation and the Development of Experimental Expressive Interfaces. <i>Lecture Notes in Computer Science</i> , 2018 , 24-34	0.9	

- 6 Distributed multimedia information systems. *IEEE MultiMedia*, **1997**, 4, 68-73 2.1
- 5 Introducing the declarative dungeon. *Lecture Notes in Computer Science*, **1997**, 407-417 0.9
- 4 Application-independent link processing. *Computer Networks*, **1998**, 30, 616-618
- 3 Re-Evaluating The Grid: The Social Life of Programs **2008**, 201-211
- 2 The Financial Clouds Review **2013**, 125-146
- 1 The Future(s) of Social Machines: The Research Agenda. *Lecture Notes in Social Networks*, **2019**, 201-217 0.6