

Jim Davies

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.

96
papers

1,656
citations

18
h-index

39
g-index

107
ext. papers

2,128
ext. citations

5.7
avg, IF

4.19
L-index

#	Paper	IF	Citations
96	Ordering of mutations in preinvasive disease stages of esophageal carcinogenesis. <i>Nature Genetics</i> , 2014 , 46, 837-843	36.3	240
95	Rapid, comprehensive, and affordable mycobacterial diagnosis with whole-genome sequencing: a prospective study. <i>Lancet Respiratory Medicine</i> , 2016 , 4, 49-58	35.1	216
94	Effects of control interventions on <i>Clostridium difficile</i> infection in England: an observational study. <i>Lancet Infectious Diseases</i> , 2017 , 17, 411-421	25.5	202
93	Positive Imagery-Based Cognitive Bias Modification as a Web-Based Treatment Tool for Depressed Adults: A Randomized Controlled Trial. <i>Clinical Psychological Science</i> , 2015 , 3, 91-111	6	123
92	A brief history of Timed CSP. <i>Theoretical Computer Science</i> , 1995 , 138, 243-271	1.1	88
91	Mortality risks associated with emergency admissions during weekends and public holidays: an analysis of electronic health records. <i>Lancet</i> , 2017 , 390, 62-72	40	75
90	Identification of Prognostic Phenotypes of Esophageal Adenocarcinoma in 2 Independent Cohorts. <i>Gastroenterology</i> , 2018 , 155, 1720-1728.e4	13.3	46
89	Taxonomy-Based Glyph Design with a Case Study on Visualizing Workflows of Biological Experiments. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012 , 18, 2603-12	4	35
88	Invasive versus non-invasive management of older patients with non-ST elevation myocardial infarction (SENIOR-NSTEMI): a cohort study based on routine clinical data. <i>Lancet</i> , 2020 , 396, 623-634	40	27
87	Predicting the Risk of Inpatient Hypoglycemia With Machine Learning Using Electronic Health Records. <i>Diabetes Care</i> , 2020 , 43, 1504-1511	14.6	24
86	Identification of Subtypes of Barrett's Esophagus and Esophageal Adenocarcinoma Based on DNA Methylation Profiles and Integration of Transcriptome and Genome Data. <i>Gastroenterology</i> , 2020 , 158, 1682-1697.e1	13.3	23
85	A singleton failures semantics for Communicating Sequential Processes. <i>Formal Aspects of Computing</i> , 2006 , 18, 181-210	1.2	23
84	The True Colours Remote Symptom Monitoring System: A Decade of Evolution. <i>Journal of Medical Internet Research</i> , 2020 , 22, e15188	7.6	21
83	Association of troponin level and age with mortality in 250 000 patients: cohort study across five UK acute care centres. <i>BMJ</i> , 2019 , 367, l6055	5.9	21
82	Electronic Health Informatics Data To Describe Clearance Dynamics of Hepatitis B Surface Antigen (HBsAg) and e Antigen (HBeAg) in Chronic Hepatitis B Virus Infection. <i>MBio</i> , 2019 , 10,	7.8	19
81	Model-driven engineering of information systems: 10 years and 1000 versions. <i>Science of Computer Programming</i> , 2014 , 89, 88-104	1.1	19
80	On the Refinement and Simulation of Data Types and Processes 1999 , 273-292		19

79	A metadata approach for clinical data management in translational genomics studies in breast cancer. <i>BMC Medical Genomics</i> , 2009 , 2, 66	3.7	18
78	Refinement in Object-Z and CSP. <i>Lecture Notes in Computer Science</i> , 2002 , 225-244	0.9	17
77	Visual compression of workflow visualizations with automated detection of macro motifs. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2013 , 19, 2576-85	4	15
76	A method for the automatic generation of test suites from object models. <i>Information and Software Technology</i> , 2004 , 46, 309-314	3.4	15
75	The CancerGrid experience: Metadata-based model-driven engineering for clinical trials. <i>Science of Computer Programming</i> , 2014 , 89, 126-143	1.1	14
74	Concurrency and Refinement in the Unified Modeling Language. <i>Formal Aspects of Computing</i> , 2003 , 15, 118-145	1.2	14
73	Formality, Evolution, and Model-driven Software Engineering. <i>Electronic Notes in Theoretical Computer Science</i> , 2005 , 130, 39-55	0.7	14
72	Machine learning to predict early recurrence after oesophageal cancer surgery. <i>British Journal of Surgery</i> , 2020 , 107, 1042-1052	5.3	14
71	Technological foundations of electronic governance 2007 ,		13
70	Recursion induction for real-time processes. <i>Formal Aspects of Computing</i> , 1993 , 5, 530-553	1.2	13
69	Semantic frameworks for e-government 2007 ,		12
68	Examining variation in the measurement of multimorbidity in research: a systematic review of 566 studies. <i>Lancet Public Health</i> , 2021 , 6, e587-e597	22.4	12
67	Activity Graphs and Processes. <i>Lecture Notes in Computer Science</i> , 2000 , 77-96	0.9	12
66	Machine learning and software engineering in health informatics 2012 ,		11
65	Authority and the Future of Consent in Population-Level Biomedical Research. <i>Public Health Ethics</i> , 2019 , 12, 225-236	1.8	10
64	Metadata standards for semantic interoperability in electronic government 2008 ,		9
63	Formal model-driven engineering of critical information systems. <i>Science of Computer Programming</i> , 2015 , 103, 88-113	1.1	8
62	Prognostic significance of troponin level in 3121 patients presenting with atrial fibrillation (The NIHR Health Informatics Collaborative TROP-AF study). <i>Journal of the American Heart Association</i> , 2020 , 9, e013684	6	8

61	Metadata-driven software for clinical trials 2009 ,		8
60	From Predicates to Programs: The Semantics of a Method Language. <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 184, 171-187	0.7	8
59	Model-driven architecture for cancer research 2007 ,		7
58	Teaching Formal Methods in Context. <i>Lecture Notes in Computer Science</i> , 2004 , 185-202	0.9	7
57	Distributed expertise for teaching computer organization & architecture 2001 ,		6
56	Union of light ion therapy centers in Europe (ULICE EC FP7) - Objectives and achievements of joint research activities. <i>Radiotherapy and Oncology</i> , 2018 , 128, 83-100	5.3	5
55	Towards a Framework for Security in eScience 2010 ,		5
54	Models for forms 2011 ,		5
53	Using CSP to verify sequential consistency. <i>Distributed Computing</i> , 1999 , 12, 91-103	1.2	5
52	National Institute for Health Research Health Informatics Collaborative: development of a pipeline to collate electronic clinical data for viral hepatitis research. <i>BMJ Health and Care Informatics</i> , 2020 , 27,	2.6	5
51	Using Relational and Behavioural Semantics in the Verification of Object Models. <i>IFIP Advances in Information and Communication Technology</i> , 2000 , 163-182	0.5	5
50	Inpatient hypoglycaemia: understanding who is at risk. <i>Diabetologia</i> , 2020 , 63, 1299-1304	10.3	4
49	Semantic technologies in electronic government 2008 ,		4
48	Domain-specific Semantics and Data Refinement of Object Models. <i>Electronic Notes in Theoretical Computer Science</i> , 2008 , 195, 151-170	0.7	4
47	Bimodal distribution and set point HBV DNA viral loads in chronic infection: retrospective analysis of cohorts from the UK and South Africa. <i>Wellcome Open Research</i> , 2020 , 5, 113	4.8	4
46	Bimodal distribution and set point HBV DNA viral loads in chronic infection: retrospective analysis of cohorts from the UK and South Africa. <i>Wellcome Open Research</i> , 2020 , 5, 113	4.8	4
45	A formal, scalable approach to semantic interoperability. <i>Science of Computer Programming</i> , 2020 , 192, 102426	1.1	3
44	Domain specific modelling for clinical research 2015 ,		3

43	Data-driven Markov models and their application in the evaluation of adverse events in radiotherapy. <i>Journal of Radiation Research</i> , 2013 , 54 Suppl 1, i49-55	2.4	3
42	Introduction to Electronic Government Education, Training and Professionalization Minitrack 2013 ,		3
41	WSRF-Based Modeling of Clinical Trial Information for Collaborative Cancer Research 2008 ,		3
40	Automatic maintenance of association invariants. <i>Software and Systems Modeling</i> , 2008 , 7, 287-301	1.9	3
39	Form Follows Function. <i>Lecture Notes in Computer Science</i> , 2012 , 21-38	0.9	3
38	Cross-Trial Query System for Cancer Clinical Trials 2007 , 385-390		3
37	Mortality risk prediction of high-sensitivity C-reactive protein in suspected acute coronary syndrome: A cohort study.. <i>PLoS Medicine</i> , 2022 , 19, e1003911	11.6	3
36	Introduction to E-Government Education Minitrack 2014 ,		2
35	Economies and diseconomies of scale in software development. <i>Journal of Software: Evolution and Process</i> , 2011 , 23, 533-548		2
34	A Metamodel-Based Approach to Information Systems Evolution and Data Migration 2010 ,		2
33	A comparison of refinement orderings and their associated simulation rules. <i>Electronic Notes in Theoretical Computer Science</i> , 2002 , 70, 297-310	0.7	2
32	Factorizing proofs in timed CSP 1989 , 129-159		2
31	Engineering Agile Big-Data Systems 2018 , 1-436		2
30	Model-Driven Data Migration. <i>Lecture Notes in Computer Science</i> , 2010 , 285-294	0.9	2
29	Specification and Verification of Model-Driven Data Migration. <i>Lecture Notes in Computer Science</i> , 2011 , 214-225	0.9	2
28	Compositionality and Refinement in Model-Driven Engineering. <i>Lecture Notes in Computer Science</i> , 2012 , 99-114	0.9	2
27	Bimodal distribution and set point HBV DNA viral loads in chronic infection: retrospective analysis of cohorts from the UK and South Africa		2
26	Towards a denotational semantics for ET-LOTOS. <i>Lecture Notes in Computer Science</i> , 1995 , 269-283	0.9	2

25	Broadcast communication for real-time processes. <i>Lecture Notes in Computer Science</i> , 1992 , 149-169	0.9	2
24	Variation in the estimated prevalence of multimorbidity: systematic review and meta-analysis of 193 international studies.. <i>BMJ Open</i> , 2022 , 12, e057017	3	2
23	A metadata-aware application for remote scoring and exchange of tissue microarray images. <i>BMC Bioinformatics</i> , 2013 , 14, 147	3.6	1
22	Hadron therapy information sharing prototype. <i>Journal of Radiation Research</i> , 2013 , 54 Suppl 1, i56-60	2.4	1
21	A Guarded Workflow Language and Its Formal Semantics 2010 ,		1
20	Formal and Model-Based Testing of Concurrent Workflows 2011 ,		1
19	Formal methods for future interoperability. <i>SIGCSE Bulletin</i> , 2009 , 41, 60-64	0	1
18	Using CSP to verify a timed protocol over a fair medium 1992 , 355-369		1
17	Longitudinal analysis of the utility of liver biochemistry in hospitalised COVID-19 patients as prognostic markers		1
16	Digital Pathology Transformation in a Supraregional Germ Cell Tumour Network.. <i>Diagnostics</i> , 2021 , 11,	3.8	1
15	Cohort Profile: National Institute for Health Research Health Informatics Collaborative: Hepatitis B Virus (NIHR HIC HBV) Research Dataset		1
14	National Institute for Health Research Health Informatics Collaborative (NIHR HIC): Development of a Pipeline to Collate Electronic Clinical Data for Viral Hepatitis Research		1
13	Low-cost and clinically applicable copy number profiling using repeat DNA		1
12	A Formal Modeling Approach to Information Systems Evolution and Data Migration. <i>Lecture Notes in Business Information Processing</i> , 2011 , 383-397	0.6	1
11	Hepatitis B virus (HBV) viral load, liver and renal function in adults treated with tenofovir disoproxil fumarate (TDF) vs. untreated: a retrospective longitudinal UK cohort study. <i>BMC Infectious Diseases</i> , 2021 , 21, 610	4	1
10	Longitudinal Analysis of the Utility of Liver Biochemistry as Prognostic Markers in Hospitalized Patients With Corona Virus Disease 2019. <i>Hepatology Communications</i> , 2021 , 5, 1586-1604	6	1
9	Combining faecal immunochemical testing with blood test results for colorectal cancer risk stratification: a consecutive cohort of 16,604 patients presenting to primary care.. <i>BMC Medicine</i> , 2022 , 20, 116	11.4	1
8	Prognostic Significance of Ventricular Arrhythmias in 13444 Patients With Acute Coronary Syndrome: A Retrospective Cohort Study Based on Routine Clinical Data (NIHR Health Informatics Collaborative VA-ACS Study).. <i>Journal of the American Heart Association</i> , 2022 , e024260	6	0

7	Association of statin and/or renin-angiotensin-aldosterone system modulating therapy with mortality in adults with diabetes admitted to hospital with COVID-19: A retrospective multicentre European study.. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2022 , 16, 102484	8.9	0
6	Software Project Management for Combined Software and Data Engineering. <i>Computer Communications and Networks</i> , 2017 , 367-385	0.5	
5	Impact of the COVID-19 pandemic on routine surveillance for adults with chronic hepatitis B virus (HBV) infection in the UK. <i>Wellcome Open Research</i> , 7 , 51	4.8	
4	Semantic Frameworks Meanings in the Architecture. <i>Lecture Notes in Computer Science</i> , 2010 , 40-54	0.9	
3	Formal Model-Driven Engineering: Generating Data and Behavioural Components. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> , 105 , 100-117		
2	A Formal Model for RDF Dataset Constraints. <i>Lecture Notes in Computer Science</i> , 2014 , 244-260	0.9	
1	Can Researchers Assess the Suitability of Datasets to Answer Their Research Questions, with Access to Metadata Only?. <i>Studies in Health Technology and Informatics</i> , 2022 ,	0.5	