

Cagatay Catal

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.

82

papers

2,114

citations

21

h-index

45

g-index

91

ext. papers

2,957

ext. citations

3.9

avg, IF

6.1

L-index

#	Paper	IF	Citations
82	A systematic review of software fault prediction studies. <i>Expert Systems With Applications</i> , 2009 , 36, 7346-7354	7.8	324
81	Software fault prediction: A literature review and current trends. <i>Expert Systems With Applications</i> , 2011 , 38, 4626-4636	7.8	190
80	Investigating the effect of dataset size, metrics sets, and feature selection techniques on software fault prediction problem. <i>Information Sciences</i> , 2009 , 179, 1040-1058	7.7	188
79	Crop yield prediction using machine learning: A systematic literature review. <i>Computers and Electronics in Agriculture</i> , 2020 , 177, 105709	6.5	156
78	Analysis of transfer learning for deep neural network based plant classification models. <i>Computers and Electronics in Agriculture</i> , 2019 , 158, 20-29	6.5	146
77	On the use of ensemble of classifiers for accelerometer-based activity recognition. <i>Applied Soft Computing Journal</i> , 2015 , 37, 1018-1022	7.5	132
76	A sentiment classification model based on multiple classifiers. <i>Applied Soft Computing Journal</i> , 2017 , 50, 135-141	7.5	116
75	Test case prioritization: a systematic mapping study. <i>Software Quality Journal</i> , 2013 , 21, 445-478	1.2	96
74	Practical development of an Eclipse-based software fault prediction tool using Naive Bayes algorithm. <i>Expert Systems With Applications</i> , 2011 , 38, 2347-2353	7.8	60
73	Empirical analysis of change metrics for software fault prediction. <i>Computers and Electrical Engineering</i> , 2018 , 67, 15-24	4.3	40
72	Clustering and Metrics Thresholds Based Software Fault Prediction of Unlabeled Program Modules 2009 ,		35
71	Class noise detection based on software metrics and ROC curves. <i>Information Sciences</i> , 2011 , 181, 4867-4877	7.7	32
70	Machine learning applications in production lines: A systematic literature review. <i>Computers and Industrial Engineering</i> , 2020 , 149, 106773	6.4	31
69	Closing the Gap Between Software Engineering Education and Industrial Needs. <i>IEEE Software</i> , 2020 , 37, 68-77	1.5	27
68	Design of a reference architecture for developing smart warehouses in industry 4.0. <i>Computers in Industry</i> , 2021 , 124, 103343	11.6	27
67	Coronaviruses and people with intellectual disability: an exploratory data analysis. <i>Journal of Intellectual Disability Research</i> , 2020 , 64, 475-481	3.2	25
66	On the effectiveness of virtual reality in the education of software engineering. <i>Computer Applications in Engineering Education</i> , 2018 , 26, 918-927	1.6	24

65	Systematic reviews in sentiment analysis: a tertiary study. <i>Artificial Intelligence Review</i> , 2021 , 54, 4997-5053	2.4	24
64	A Comparison of Semi-Supervised Classification Approaches for Software Defect Prediction. <i>Journal of Intelligent Systems</i> , 2014 , 23, 75-82	1.5	23
63	Aligning Education for the Life Sciences Domain to Support Digitalization and Industry 4.0. <i>Procedia Computer Science</i> , 2019 , 158, 99-106	1.6	22
62	Unlabelled extra data do not always mean extra performance for semi-supervised fault prediction. <i>Expert Systems</i> , 2009 , 26, 458-471	2.1	22
61	Software Fault Prediction with Object-Oriented Metrics Based Artificial Immune Recognition System. <i>Lecture Notes in Computer Science</i> , 2007 , 300-314	0.9	21
60	Precision nutrition: A systematic literature review. <i>Computers in Biology and Medicine</i> , 2021 , 133, 1043657		19
59	An Artificial Immune System Approach for Fault Prediction in Object-Oriented Software 2007 ,		18
58	Aligning software engineering education with industrial needs: A meta-analysis. <i>Journal of Systems and Software</i> , 2019 , 156, 65-83	3.3	17
57	Thresholds based outlier detection approach for mining class outliers: An empirical case study on software measurement datasets. <i>Expert Systems With Applications</i> , 2011 , 38, 3440-3445	7.8	16
56	Automation of systematic literature reviews: A systematic literature review. <i>Information and Software Technology</i> , 2021 , 136, 106589	3.4	16
55	A Fault Prediction Model with Limited Fault Data to Improve Test Process. <i>Lecture Notes in Computer Science</i> , 2008 , 244-257	0.9	15
54	Analyzing the effectiveness of semi-supervised learning approaches for opinion spam classification. <i>Applied Soft Computing Journal</i> , 2021 , 101, 107023	7.5	15
53	Remaining Useful Life (RUL) Prediction of Equipment in Production Lines Using Artificial Neural Networks. <i>Sensors</i> , 2021 , 21,	3.8	15
52	Product review management software based on multiple classifiers. <i>IET Software</i> , 2017 , 11, 89-92	1	14
51	Development of a recurrent neural networks-based calving prediction model using activity and behavioral data. <i>Computers and Electronics in Agriculture</i> , 2020 , 170, 105285	6.5	11
50	Development of a Software Vulnerability Prediction Web Service Based on Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 59-67	0.9	10
49	On the application of genetic algorithms for test case prioritization 2012 ,		10
48	A hybrid DNN-LSTM model for detecting phishing URLs. <i>Neural Computing and Applications</i> , 2021 , 1-17	4.8	10

47	Sensor Failure Tolerable Machine Learning-Based Food Quality Prediction Model. <i>Sensors</i> , 2020 , 20,	3.8	9
46	Hybrid Blockchain Platforms for the Internet of Things (IoT): A Systematic Literature Review.. <i>Sensors</i> , 2022 , 22,	3.8	9
45	Evaluation of augmented reality technology for the design of an evacuation training game. <i>Virtual Reality</i> , 2020 , 24, 359-368	6	9
44	Application of machine learning to improve dairy farm management: A systematic literature review. <i>Preventive Veterinary Medicine</i> , 2021 , 187, 105237	3.1	8
43	Metrics-Driven Software Quality Prediction Without Prior Fault Data. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 189-199	0.2	7
42	A domain-specific language framework for farm management information systems in precision agriculture. <i>Precision Agriculture</i> , 2020 , 22, 1067	5.6	7
41	Hybrid Deep Learning-based Models for Crop Yield Prediction. <i>Applied Artificial Intelligence</i> , 1-18	2.3	6
40	Image-based body mass prediction of heifers using deep neural networks. <i>Biosystems Engineering</i> , 2021 , 204, 283-293	4.8	6
39	The use of cross-company fault data for the software fault prediction problem. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016 , 24, 3714-3723	0.9	6
38	Performance tuning for machine learning-based software development effort prediction models. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2019 , 1308-1324	0.9	5
37	Malware Detection Based on Graph Attention Networks for Intelligent Transportation Systems. <i>Electronics (Switzerland)</i> , 2021 , 10, 2534	2.6	5
36	Computer vision-based weight estimation of livestock: a systematic literature review. <i>New Zealand Journal of Agricultural Research</i> , 1-21	1.9	5
35	Data analytics platforms for agricultural systems: A systematic literature review. <i>Computers and Electronics in Agriculture</i> , 2022 , 195, 106813	6.5	5
34	Smart Warehouses: Rationale, Challenges and Solution Directions. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 219	2.6	5
33	Obstacles of On-Premise Enterprise Resource Planning Systems and Solution Directions. <i>Journal of Computer Information Systems</i> , 2020 , 1-12	1.9	4
32	Improvement of Demand Forecasting Models with Special Days. <i>Procedia Computer Science</i> , 2015 , 59, 262-267	1.6	4
31	Virtual reality based rehabilitation system for Parkinson and multiple sclerosis patients 2017 ,		4
30	Obstacles and features of health information systems: A systematic literature review. <i>Computers in Biology and Medicine</i> , 2021 , 137, 104785	7	4

29	A Firewall Policy Anomaly Detection Framework for Reliable Network Security. <i>IEEE Transactions on Reliability</i> , 2021 , 1-9	4.6	4
28	Automatic energy expenditure measurement for health science. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 157, 31-37	6.9	3
27	Automatic Software Categorization Using Ensemble Methods and Bytecode Analysis. <i>International Journal of Software Engineering and Knowledge Engineering</i> , 2017 , 27, 1129-1144	1	3
26	Software mining and fault prediction. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2012 , 2, 420-426	6.9	3
25	An outlier detection algorithm based on object-oriented metrics thresholds 2009 ,		3
24	The Ten Best Practices for Test Case Prioritization. <i>Communications in Computer and Information Science</i> , 2012 , 452-459	0.3	3
23	Model analytics for defect prediction based on design-level metrics and sampling techniques 2020 , 125-139		3
22	A Multi-Channel Convolutional Neural Network approach to automate the citation screening process. <i>Applied Soft Computing Journal</i> , 2021 , 112, 107765	7.5	3
21	Machine Learning-Based Software Defect Prediction for Mobile Applications: A Systematic Literature Review.. <i>Sensors</i> , 2022 , 22,	3.8	3
20	The impact of feature types, classifiers, and data balancing techniques on software vulnerability prediction models. <i>Journal of Software: Evolution and Process</i> , 2019 , 31, e2164	1	2
19	A Conceptual Framework to Integrate Fault Prediction Sub-Process for Software Product Lines 2008 ,		2
18	Dairy Farm Management Information Systems. <i>Electronics (Switzerland)</i> , 2022 , 11, 239	2.6	2
17	Energy Load Forecasting Using a Dual-Stage Attention-Based Recurrent Neural Network. <i>Sensors</i> , 2021 , 21,	3.8	2
16	Design of a Data Management Reference Architecture for Sustainable Agriculture. <i>Sustainability</i> , 2021 , 13, 7309	3.6	2
15	A decision support system for automating document retrieval and citation screening. <i>Expert Systems With Applications</i> , 2021 , 182, 115261	7.8	2
14	Product failure detection for production lines using a data-driven model. <i>Expert Systems With Applications</i> , 2022 , 202, 117398	7.8	2
13	A cloud-based recommendation service using principle component analysisScale-invariant feature transform algorithm. <i>Neural Computing and Applications</i> , 2017 , 28, 2859-2868	4.8	1
12	Neuro-Fuzzy Modeling for Multi-Objective Test Suite Optimization. <i>Journal of Intelligent Systems</i> , 2016 , 25, 123-146	1.5	1

11	Native Code Generation as a Service. <i>International Journal of Software Engineering and Knowledge Engineering</i> , 2019 , 29, 263-284	1	1
10	Deep learning for crop yield prediction: a systematic literature review. <i>New Zealand Journal of Crop and Horticultural Science</i> ,1-26	0.9	1
9	Techniques for Calculating Software Product Metrics Threshold Values: A Systematic Mapping Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11377	2.6	1
8	Application of Artificial Immune Systems Paradigm for Developing Software Fault Prediction Models76-93		1
7	Applications of deep learning for mobile malware detection: A systematic literature review. <i>Neural Computing and Applications</i> ,1	4.8	1
6	Application of Artificial Immune Systems Paradigm for Developing Software Fault Prediction Models 2012 , 371-387		1
5	RESTful API Testing Methodologies: Rationale, Challenges, and Solution Directions. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4369	2.6	1
4	Deep learning-based multi-task prediction system for plant disease and species detection. <i>Ecological Informatics</i> , 2022 , 69, 101679	4.2	1
3	Designing a reference architecture for health information systems. <i>BMC Medical Informatics and Decision Making</i> , 2021 , 21, 210	3.6	0
2	Predicting Plasma Vitamin C Using Machine Learning. <i>Applied Artificial Intelligence</i> ,1-28	2.3	0
1	A feature-based approach for guiding the selection of Internet of Things cybersecurity standards using text mining. <i>Concurrency Computation Practice and Experience</i> ,e6385	1.4	