

Cagatay Catal

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7640522/cagatay-catal-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Dairy Farm Management Information Systems. <i>Electronics (Switzerland)</i> , 2022 , 11, 239	2.6	2
81	Hybrid Blockchain Platforms for the Internet of Things (IoT): A Systematic Literature Review.. <i>Sensors</i> , 2022 , 22,	3.8	9
80	Machine Learning-Based Software Defect Prediction for Mobile Applications: A Systematic Literature Review.. <i>Sensors</i> , 2022 , 22,	3.8	3
79	Data analytics platforms for agricultural systems: A systematic literature review. <i>Computers and Electronics in Agriculture</i> , 2022 , 195, 106813	6.5	5
78	Smart Warehouses: Rationale, Challenges and Solution Directions. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 219	2.6	5
77	RESTful API Testing Methodologies: Rationale, Challenges, and Solution Directions. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4369	2.6	1
76	Product failure detection for production lines using a data-driven model. <i>Expert Systems With Applications</i> , 2022 , 202, 117398	7.8	2
75	Deep learning-based multi-task prediction system for plant disease and species detection. <i>Ecological Informatics</i> , 2022 , 69, 101679	4.2	1
74	Techniques for Calculating Software Product Metrics Threshold Values: A Systematic Mapping Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11377	2.6	1
73	Malware Detection Based on Graph Attention Networks for Intelligent Transportation Systems. <i>Electronics (Switzerland)</i> , 2021 , 10, 2534	2.6	5
72	Energy Load Forecasting Using a Dual-Stage Attention-Based Recurrent Neural Network. <i>Sensors</i> , 2021 , 21,	3.8	2
71	Systematic reviews in sentiment analysis: a tertiary study. <i>Artificial Intelligence Review</i> , 2021 , 54, 4997-5053	9.7	24
70	Analyzing the effectiveness of semi-supervised learning approaches for opinion spam classification. <i>Applied Soft Computing Journal</i> , 2021 , 101, 107023	7.5	15
69	Image-based body mass prediction of heifers using deep neural networks. <i>Biosystems Engineering</i> , 2021 , 204, 283-293	4.8	6
68	Precision nutrition: A systematic literature review. <i>Computers in Biology and Medicine</i> , 2021 , 133, 1043657		19
67	Design of a Data Management Reference Architecture for Sustainable Agriculture. <i>Sustainability</i> , 2021 , 13, 7309	3.6	2
66	Design of a reference architecture for developing smart warehouses in industry 4.0. <i>Computers in Industry</i> , 2021 , 124, 103343	11.6	27

65	Application of machine learning to improve dairy farm management: A systematic literature review. <i>Preventive Veterinary Medicine</i> , 2021 , 187, 105237	3.1	8
64	Designing a reference architecture for health information systems. <i>BMC Medical Informatics and Decision Making</i> , 2021 , 21, 210	3.6	0
63	Automation of systematic literature reviews: A systematic literature review. <i>Information and Software Technology</i> , 2021 , 136, 106589	3.4	16
62	A hybrid DNN-LSTM model for detecting phishing URLs. <i>Neural Computing and Applications</i> , 2021 , 1-17	4.8	10
61	Obstacles and features of health information systems: A systematic literature review. <i>Computers in Biology and Medicine</i> , 2021 , 137, 104785	7	4
60	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
59	A decision support system for automating document retrieval and citation screening. <i>Expert Systems With Applications</i> , 2021 , 182, 115261	7.8	2
58	A Firewall Policy Anomaly Detection Framework for Reliable Network Security. <i>IEEE Transactions on Reliability</i> , 2021 , 1-9	4.6	4
57	Remaining Useful Life (RUL) Prediction of Equipment in Production Lines Using Artificial Neural Networks. <i>Sensors</i> , 2021 , 21,	3.8	15
56	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
55	Sensor Failure Tolerable Machine Learning-Based Food Quality Prediction Model. <i>Sensors</i> , 2020 , 20,	3.8	9
54	Obstacles of On-Premise Enterprise Resource Planning Systems and Solution Directions. <i>Journal of Computer Information Systems</i> , 2020 , 1-12	1.9	4
53	Model analytics for defect prediction based on design-level metrics and sampling techniques 2020 , 125-139		3
52	Evaluation of augmented reality technology for the design of an evacuation training game. <i>Virtual Reality</i> , 2020 , 24, 359-368	6	9
51	Machine learning applications in production lines: A systematic literature review. <i>Computers and Industrial Engineering</i> , 2020 , 149, 106773	6.4	31
50	Crop yield prediction using machine learning: A systematic literature review. <i>Computers and Electronics in Agriculture</i> , 2020 , 177, 105709	6.5	156
49	A domain-specific language framework for farm management information systems in precision agriculture. <i>Precision Agriculture</i> , 2020 , 22, 1067	5.6	7
48	Closing the Gap Between Software Engineering Education and Industrial Needs. <i>IEEE Software</i> , 2020 , 37, 68-77	1.5	27

47	Coronaviruses and people with intellectual disability: an exploratory data analysis. <i>Journal of Intellectual Disability Research</i> , 2020 , 64, 475-481	3.2	25
46	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
45	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
44	Aligning software engineering education with industrial needs: A meta-analysis. <i>Journal of Systems and Software</i> , 2019 , 156, 65-83	3.3	17
43	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
42	Native Code Generation as a Service. <i>International Journal of Software Engineering and Knowledge Engineering</i> , 2019 , 29, 263-284	1	1
41	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
40	Empirical analysis of change metrics for software fault prediction. <i>Computers and Electrical Engineering</i> , 2018 , 67, 15-24	4.3	40
39	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
38	Automatic energy expenditure measurement for health science. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 157, 31-37	6.9	3
37	A cloud-based recommendation service using principle component analysis-scale-invariant feature transform algorithm. <i>Neural Computing and Applications</i> , 2017 , 28, 2859-2868	4.8	1
36	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
35	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
34	Product review management software based on multiple classifiers. <i>IET Software</i> , 2017 , 11, 89-92	1	14
33	Virtual reality based rehabilitation system for Parkinson and multiple sclerosis patients 2017 ,		4
32	A sentiment classification model based on multiple classifiers. <i>Applied Soft Computing Journal</i> , 2017 , 50, 135-141	7.5	116
31	Neuro-Fuzzy Modeling for Multi-Objective Test Suite Optimization. <i>Journal of Intelligent Systems</i> , 2016 , 25, 123-146	1.5	1
30	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

29	Improvement of Demand Forecasting Models with Special Days. <i>Procedia Computer Science</i> , 2015 , 59, 262-267	1.6	4
28	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
27	A Comparison of Semi-Supervised Classification Approaches for Software Defect Prediction. <i>Journal of Intelligent Systems</i> , 2014 , 23, 75-82	1.5	23
26	Test case prioritization: a systematic mapping study. <i>Software Quality Journal</i> , 2013 , 21, 445-478	1.2	96
25	Software mining and fault prediction. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2012 , 2, 420-426	6.9	3
24	On the application of genetic algorithms for test case prioritization 2012 ,		10
23	The Ten Best Practices for Test Case Prioritization. <i>Communications in Computer and Information Science</i> , 2012 , 452-459	0.3	3
22	Application of Artificial Immune Systems Paradigm for Developing Software Fault Prediction Models 2012 , 371-387		1
21	Class noise detection based on software metrics and ROC curves. <i>Information Sciences</i> , 2011 , 181, 4867-4877	4.7	32
20	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
19	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
18	Software fault prediction: A literature review and current trends. <i>Expert Systems With Applications</i> , 2011 , 38, 4626-4636	7.8	190
17	Metrics-Driven Software Quality Prediction Without Prior Fault Data. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 189-199	0.2	7
16	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
15	A systematic review of software fault prediction studies. <i>Expert Systems With Applications</i> , 2009 , 36, 7346-7354	6.8	324
14	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
13	Clustering and Metrics Thresholds Based Software Fault Prediction of Unlabeled Program Modules 2009 ,		35
12	An outlier detection algorithm based on object-oriented metrics thresholds 2009 ,		3

11	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
10	A Conceptual Framework to Integrate Fault Prediction Sub-Process for Software Product Lines 2008 ,		2
9	An Artificial Immune System Approach for Fault Prediction in Object-Oriented Software 2007 ,		18
8	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
7	Hybrid Deep Learning-based Models for Crop Yield Prediction. <i>Applied Artificial Intelligence</i> ,1-18	2.3	6
6	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
5	Application of Artificial Immune Systems Paradigm for Developing Software Fault Prediction Models76-93		1
4	Applications of deep learning for mobile malware detection: A systematic literature review. <i>Neural Computing and Applications</i> ,1	4.8	1
3	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	
2	Computer vision-based weight estimation of livestock: a systematic literature review. <i>New Zealand Journal of Agricultural Research</i> ,1-21	1.9	5
1	Predicting Plasma Vitamin C Using Machine Learning. <i>Applied Artificial Intelligence</i> ,1-28	2.3	0