

Cagatay Catal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7640522/publications.pdf>

Version: 2024-02-01

89
papers

4,300
citations

185998

28
h-index

118652

62
g-index

91
all docs

91
docs citations

91
times ranked

2789
citing authors

#	ARTICLE	IF	CITATIONS
1	Crop yield prediction using machine learning: A systematic literature review. Computers and Electronics in Agriculture, 2020, 177, 105709.	3.7	600
2	A systematic review of software fault prediction studies. Expert Systems With Applications, 2009, 36, 7346-7354.	4.4	430
3	Analysis of transfer learning for deep neural network based plant classification models. Computers and Electronics in Agriculture, 2019, 158, 20-29.	3.7	276
4	Software fault prediction: A literature review and current trends. Expert Systems With Applications, 2011, 38, 4626-4636.	4.4	273
5	Investigating the effect of dataset size, metrics sets, and feature selection techniques on software fault prediction problem. Information Sciences, 2009, 179, 1040-1058.	4.0	252
6	On the use of ensemble of classifiers for accelerometer-based activity recognition. Applied Soft Computing Journal, 2015, 37, 1018-1022.	4.1	190
7	A sentiment classification model based on multiple classifiers. Applied Soft Computing Journal, 2017, 50, 135-141.	4.1	155
8	Test case prioritization: a systematic mapping study. Software Quality Journal, 2013, 21, 445-478.	1.4	134
9	Systematic reviews in sentiment analysis: a tertiary study. Artificial Intelligence Review, 2021, 54, 4997-5053.	9.7	112
10	Machine learning applications in production lines: A systematic literature review. Computers and Industrial Engineering, 2020, 149, 106773.	3.4	100
11	Automation of systematic literature reviews: A systematic literature review. Information and Software Technology, 2021, 136, 106589.	3.0	96
12	Closing the Gap Between Software Engineering Education and Industrial Needs. IEEE Software, 2020, 37, 68-77.	2.1	84
13	Practical development of an Eclipse-based software fault prediction tool using Naive Bayes algorithm. Expert Systems With Applications, 2011, 38, 2347-2353.	4.4	80
14	Predictive maintenance using digital twins: A systematic literature review. Information and Software Technology, 2022, 151, 107008.	3.0	74
15	Precision nutrition: A systematic literature review. Computers in Biology and Medicine, 2021, 133, 104365.	3.9	68
16	Design of a reference architecture for developing smart warehouses in industry 4.0. Computers in Industry, 2021, 124, 103343.	5.7	67
17	Empirical analysis of change metrics for software fault prediction. Computers and Electrical Engineering, 2018, 67, 15-24.	3.0	64
18	Aligning software engineering education with industrial needs: A meta-analysis. Journal of Systems and Software, 2019, 156, 65-83.	3.3	54

#	ARTICLE	IF	CITATIONS
19	Remaining Useful Life (RUL) Prediction of Equipment in Production Lines Using Artificial Neural Networks. <i>Sensors</i> , 2021, 21, 932.	2.1	50
20	On the effectiveness of virtual reality in the education of software engineering. <i>Computer Applications in Engineering Education</i> , 2018, 26, 918-927.	2.2	48
21	Aligning Education for the Life Sciences Domain to Support Digitalization and Industry 4.0. <i>Procedia Computer Science</i> , 2019, 158, 99-106.	1.2	46
22	Clustering and Metrics Thresholds Based Software Fault Prediction of Unlabeled Program Modules. , 2009, , .		45
23	Class noise detection based on software metrics and ROC curves. <i>Information Sciences</i> , 2011, 181, 4867-4877.	4.0	45
24	Hybrid Blockchain Platforms for the Internet of Things (IoT): A Systematic Literature Review. <i>Sensors</i> , 2022, 22, 1304.	2.1	42
25	Analyzing the effectiveness of semi-supervised learning approaches for opinion spam classification. <i>Applied Soft Computing Journal</i> , 2021, 101, 107023.	4.1	41
26	A hybrid DNNâ€‘LSTM model for detecting phishing URLs. <i>Neural Computing and Applications</i> , 2023, 35, 4957-4973.	3.2	40
27	Hybrid Deep Learning-based Models for Crop Yield Prediction. <i>Applied Artificial Intelligence</i> , 2022, 36, .	2.0	37
28	Coronaviruses and people with intellectual disability: an exploratory data analysis. <i>Journal of Intellectual Disability Research</i> , 2020, 64, 475-481.	1.2	35
29	Deep learning for crop yield prediction: a systematic literature review. <i>New Zealand Journal of Crop and Horticultural Science</i> , 2023, 51, 1-26.	0.7	35
30	A Fault Prediction Model with Limited Fault Data to Improve Test Process. <i>Lecture Notes in Computer Science</i> , 2008, , 244-257.	1.0	31
31	A Comparison of Semi-Supervised Classification Approaches for Software Defect Prediction. <i>Journal of Intelligent Systems</i> , 2014, 23, 75-82.	1.2	30
32	Applications of deep learning for phishing detection: a systematic literature review. <i>Knowledge and Information Systems</i> , 2022, 64, 1457-1500.	2.1	30
33	Unlabelled extra data do not always mean extra performance for semiâ€‘supervised fault prediction. <i>Expert Systems</i> , 2009, 26, 458-471.	2.9	29
34	An Artificial Immune System Approach for Fault Prediction in Object-Oriented Software. , 2007, , .		28
35	Application of machine learning to improve dairy farm management: A systematic literature review. <i>Preventive Veterinary Medicine</i> , 2021, 187, 105237.	0.7	28
36	Software Fault Prediction with Object-Oriented Metrics Based Artificial Immune Recognition System. <i>Lecture Notes in Computer Science</i> , 2007, , 300-314.	1.0	27

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37	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.	3.7	27
38	Computer vision-based weight estimation of livestock: a systematic literature review. <i>New Zealand Journal of Agricultural Research</i> , 2022, 65, 227-247.	0.9	24
39	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.	4.4	23
40	Evaluation of augmented reality technology for the design of an evacuation training game. <i>Virtual Reality</i> , 2020, 24, 359-368.	4.1	23
41	On the application of genetic algorithms for test case prioritization. , 2012, , .		19
42	Deep learning-based multi-task prediction system for plant disease and species detection. <i>Ecological Informatics</i> , 2022, 69, 101679.	2.3	19
43	Sensor Failure Tolerable Machine Learning-Based Food Quality Prediction Model. <i>Sensors</i> , 2020, 20, 3173.	2.1	18
44	Image-based body mass prediction of heifers using deep neural networks. <i>Biosystems Engineering</i> , 2021, 204, 283-293.	1.9	18
45	Machine Learning-Based Software Defect Prediction for Mobile Applications: A Systematic Literature Review. <i>Sensors</i> , 2022, 22, 2551.	2.1	18
46	Smart Warehouses: Rationale, Challenges and Solution Directions. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 219.	1.3	18
47	Product review management software based on multiple classifiers. <i>IET Software</i> , 2017, 11, 89-92.	1.5	17
48	RESTful API Testing Methodologies: Rationale, Challenges, and Solution Directions. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4369.	1.3	17
49	A Real-Time CNN-Based Lightweight Mobile Masked Face Recognition System. <i>IEEE Access</i> , 2022, 10, 63496-63507.	2.6	17
50	A Firewall Policy Anomaly Detection Framework for Reliable Network Security. <i>IEEE Transactions on Reliability</i> , 2022, 71, 339-347.	3.5	16
51	Development of a Software Vulnerability Prediction Web Service Based on Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017, , 59-67.	1.0	15
52	Obstacles and features of health information systems: A systematic literature review. <i>Computers in Biology and Medicine</i> , 2021, 137, 104785.	3.9	14
53	A domain-specific language framework for farm management information systems in precision agriculture. <i>Precision Agriculture</i> , 2021, 22, 1067-1106.	3.1	12
54	A Multi-Channel Convolutional Neural Network approach to automate the citation screening process. <i>Applied Soft Computing Journal</i> , 2021, 112, 107765.	4.1	12

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55	Malware Detection Based on Graph Attention Networks for Intelligent Transportation Systems. Electronics (Switzerland), 2021, 10, 2534.	1.8	12
56	Data analytics platforms for agricultural systems: A systematic literature review. Computers and Electronics in Agriculture, 2022, 195, 106813.	3.7	12
57	Energy Load Forecasting Using a Dual-Stage Attention-Based Recurrent Neural Network. Sensors, 2021, 21, 7115.	2.1	11
58	A decision support system for automating document retrieval and citation screening. Expert Systems With Applications, 2021, 182, 115261.	4.4	10
59	Performance tuning for machine learning-based software development effort prediction models. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, , 1308-1324.	0.9	9
60	Improvement of Demand Forecasting Models with Special Days. Procedia Computer Science, 2015, 59, 262-267.	1.2	8
61	Design of a Data Management Reference Architecture for Sustainable Agriculture. Sustainability, 2021, 13, 7309.	1.6	8
62	Product failure detection for production lines using a data-driven model. Expert Systems With Applications, 2022, 202, 117398.	4.4	8
63	An outlier detection algorithm based on object-oriented metrics thresholds. , 2009, , .		7
64	The use of cross-company fault data for the software fault prediction problem. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 3714-3723.	0.9	7
65	Virtual reality based rehabilitation system for Parkinson and multiple sclerosis patients. , 2017, , .		7
66	Automatic energy expenditure measurement for health science. Computer Methods and Programs in Biomedicine, 2018, 157, 31-37.	2.6	7
67	Obstacles of On-Premise Enterprise Resource Planning Systems and Solution Directions. Journal of Computer Information Systems, 2022, 62, 141-152.	2.0	7
68	Stress Detection Using Experience Sampling: A Systematic Mapping Study. International Journal of Environmental Research and Public Health, 2022, 19, 5693.	1.2	7
69	A Conceptual Framework to Integrate Fault Prediction Sub-Process for Software Product Lines. , 2008, , .		5
70	Software mining and fault prediction. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2012, 2, 420-426.	4.6	5
71	Model analytics for defect prediction based on design-level metrics and sampling techniques. , 2020, , 125-139.		5
72	Designing a reference architecture for health information systems. BMC Medical Informatics and Decision Making, 2021, 21, 210.	1.5	5

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73	The Ten Best Practices for Test Case Prioritization. Communications in Computer and Information Science, 2012, , 452-459.	0.4	5
74	Applications of deep learning for mobile malware detection: A systematic literature review. Neural Computing and Applications, 0, , 1.	3.2	5
75	Techniques for Calculating Software Product Metrics Threshold Values: A Systematic Mapping Study. Applied Sciences (Switzerland), 2021, 11, 11377.	1.3	5
76	Dairy Farm Management Information Systems. Electronics (Switzerland), 2022, 11, 239.	1.8	5
77	Neuro-Fuzzy Modeling for Multi-Objective Test Suite Optimization. Journal of Intelligent Systems, 2016, 25, 123-146.	1.2	4
78	A cloud-based recommendation service using principle component analysisâ€œscale-invariant feature transform algorithm. Neural Computing and Applications, 2017, 28, 2859-2868.	3.2	4
79	The impact of feature types, classifiers, and data balancing techniques on software vulnerability prediction models. Journal of Software: Evolution and Process, 2019, 31, e2164.	1.2	4
80	Deep Learning-Based Defect Prediction for Mobile Applications. Sensors, 2022, 22, 4734.	2.1	4
81	Automatic Software Categorization Using Ensemble Methods and Bytecode Analysis. International Journal of Software Engineering and Knowledge Engineering, 2017, 27, 1129-1144.	0.6	3
82	A featureâ€œbased approach for guiding the selection of Internet of Things cybersecurity standards using text mining. Concurrency Computation Practice and Experience, 0, , e6385.	1.4	2
83	Application of Artificial Immune Systems Paradigm for Developing Software Fault Prediction Models. , 2012, , 371-387.		2
84	Native Code Generation as a Service. International Journal of Software Engineering and Knowledge Engineering, 2019, 29, 263-284.	0.6	1
85	Application of Artificial Immune Systems Paradigm for Developing Software Fault Prediction Models. , 0, , 76-93.		1
86	Assessment of environmental factors affecting software reliability: a survey study. Turkish Journal of Electrical Engineering and Computer Sciences, 2020, 28, 1841-1858.	0.9	1
87	Predicting Plasma Vitamin C Using Machine Learning. Applied Artificial Intelligence, 2022, 36, .	2.0	1
88	Codifying domain-specific experience into software development tools: An eclipse-based embedded platform development experience. , 2009, , .		0
89	A Systematic Mapping Study on Architectural Analysis. , 2013, , .		0