

Shaker El-Sappagh

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,798
citations

201674

27
h-index

189892

50
g-index

71
all docs

71
docs citations

71
times ranked

2130
citing authors

#	ARTICLE	IF	CITATIONS
1	Rank-driven salp swarm algorithm with orthogonal opposition-based learning for global optimization. <i>Applied Intelligence</i> , 2022, 52, 7922-7964.	5.3	21
2	Sepsis prediction in intensive care unit based on genetic feature optimization and stacked deep ensemble learning. <i>Neural Computing and Applications</i> , 2022, 34, 3603-3632.	5.6	19
3	Bayesian-based optimized deep learning model to detect COVID-19 patients using chest X-ray image data. <i>Computers in Biology and Medicine</i> , 2022, 142, 105213.	7.0	58
4	An Efficient 5G Data Plan Approach Based on Partially Distributed Mobility Architecture. <i>Sensors</i> , 2022, 22, 349.	3.8	13
5	Energy Efficient Cluster Based Routing Protocol for WSN Using Firefly Algorithm and Ant Colony Optimization. <i>Wireless Personal Communications</i> , 2022, 125, 2167-2200.	2.7	21
6	Advanced orthogonal opposition-based learning-driven dynamic salp swarm algorithm: Framework and case studies. <i>IET Control Theory and Applications</i> , 2022, 16, 945-971.	2.1	14
7	Robust deep learning early alarm prediction model based on the behavioural smell for android malware. <i>Computers and Security</i> , 2022, 116, 102670.	6.0	27
8	Context-Based Fake News Detection Model Relying on Deep Learning Models. <i>Electronics (Switzerland)</i> , 2022, 11, 1255.	3.1	15
9	Heterogeneous Ensemble Deep Learning Model for Enhanced Arabic Sentiment Analysis. <i>Sensors</i> , 2022, 22, 3707.	3.8	19
10	Two-stage deep learning model for Alzheimer's disease detection and prediction of the mild cognitive impairment time. <i>Neural Computing and Applications</i> , 2022, 34, 14487-14509.	5.6	25
11	Velocity clamping-assisted adaptive salp swarm algorithm: balance analysis and case studies. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 7756-7804.	1.9	13
12	Sentiment Analysis of Users' Reactions on Social Media during the Pandemic. <i>Electronics (Switzerland)</i> , 2022, 11, 1648.	3.1	7
13	An intelligent healthcare monitoring framework using wearable sensors and social networking data. <i>Future Generation Computer Systems</i> , 2021, 114, 23-43.	7.5	215
14	Alzheimer's disease progression detection model based on an early fusion of cost-effective multimodal data. <i>Future Generation Computer Systems</i> , 2021, 115, 680-699.	7.5	45
15	A Comprehensive Fuzzy Ontology-Based Decision Support System for Alzheimer's Disease Diagnosis. <i>IEEE Access</i> , 2021, 9, 31350-31372.	4.2	12
16	Automatic Diabetic Retinopathy Grading System Based on Detecting Multiple Retinal Lesions. <i>IEEE Access</i> , 2021, 9, 15939-15960.	4.2	45
17	A multilayer multimodal detection and prediction model based on explainable artificial intelligence for Alzheimer's disease. <i>Scientific Reports</i> , 2021, 11, 2660.	3.3	125
18	Timing and Classification of Patellofemoral Osteoarthritis Patients Using Fast Large Margin Classifier. <i>Computers, Materials and Continua</i> , 2021, 67, 393-409.	1.9	2

#	ARTICLE	IF	CITATIONS
19	Robust hybrid deep learning models for Alzheimer's progression detection. Knowledge-Based Systems, 2021, 213, 106688.	7.1	65
20	Mobile Health in Remote Patient Monitoring for Chronic Diseases: Principles, Trends, and Challenges. Diagnostics, 2021, 11, 607.	2.6	81
21	Comprehensive Survey of Using Machine Learning in the COVID-19 Pandemic. Diagnostics, 2021, 11, 1155.	2.6	40
22	An Extended Semantic Interoperability Model for Distributed Electronic Health Record Based on Fuzzy Ontology Semantics. Electronics (Switzerland), 2021, 10, 1733.	3.1	12
23	A Multi-Perspective malware detection approach through behavioral fusion of API call sequence. Computers and Security, 2021, 110, 102449.	6.0	31
24	Alzheimer Disease Prediction Model Based on Decision Fusion of CNN-BiLSTM Deep Neural Networks. Advances in Intelligent Systems and Computing, 2021, , 482-492.	0.6	5
25	Kinship verification and recognition based on handcrafted and deep learning feature-based techniques. PeerJ Computer Science, 2021, 7, e735.	4.5	4
26	Quality of Service Provisioning for Heterogeneous Services in Cognitive Radio-Enabled Internet of Things. IEEE Transactions on Network Science and Engineering, 2020, 7, 328-342.	6.4	47
27	A Proposed Frequent Itemset Discovery Algorithm Based on Item Weights and Uncertainty. International Journal of Sociotechnology and Knowledge Development, 2020, 12, 98-118.	1.0	5
28	An Energy Efficient Routing Protocol Based on Improved Artificial Bee Colony Algorithm for Wireless Sensor Networks. IEEE Access, 2020, 8, 133577-133596.	4.2	101
29	A Three-Step Authentication Model for Mobile Phone User Using Keystroke Dynamics. IEEE Access, 2020, 8, 125909-125922.	4.2	19
30	Intensive Care Unit Mortality Prediction: An Improved Patient-Specific Stacking Ensemble Model. IEEE Access, 2020, 8, 133541-133564.	4.2	64
31	Objective Diagnosis for Histopathological Images Based on Machine Learning Techniques: Classical Approaches and New Trends. Mathematics, 2020, 8, 1863.	2.2	16
32	End-To-End Deep Learning Framework for Coronavirus (COVID-19) Detection and Monitoring. Electronics (Switzerland), 2020, 9, 1439.	3.1	77
33	Medical Diagnostic Systems Using Artificial Intelligence (AI) Algorithms: Principles and Perspectives. IEEE Access, 2020, 8, 228049-228069.	4.2	63
34	Contextual Identification of Windows Malware through Semantic Interpretation of API Call Sequence. Applied Sciences (Switzerland), 2020, 10, 7673.	2.5	14
35	Staging Melanocytic Skin Neoplasms Using High-Level Pixel-Based Features. Electronics (Switzerland), 2020, 9, 1443.	3.1	2
36	Multimodal multitask deep learning model for Alzheimer's disease progression detection based on time series data. Neurocomputing, 2020, 412, 197-215.	5.9	116

#	ARTICLE	IF	CITATIONS
37	A smart healthcare monitoring system for heart disease prediction based on ensemble deep learning and feature fusion. <i>Information Fusion</i> , 2020, 63, 208-222.	19.1	429
38	Advancing Modern Healthcare With Nanotechnology, Nanobiosensors, and Internet of Nano Things: Taxonomies, Applications, Architecture, and Challenges. <i>IEEE Access</i> , 2020, 8, 65230-65266.	4.2	82
39	A Real-time Framework for Patient Monitoring Systems based on a Wireless Body Area Network. <i>International Journal of Computer Applications</i> , 2020, 176, 12-21.	0.2	6
40	A Semantic Approach for Extracting Medical Association Rules. <i>International Journal of Intelligent Engineering and Systems</i> , 2020, 13, 280-292.	0.6	1
41	A case-base fuzzification process: diabetes diagnosis case study. <i>Soft Computing</i> , 2019, 23, 5815-5834.	3.6	6
42	Mobile Health Technologies for Diabetes Mellitus: Current State and Future Challenges. <i>IEEE Access</i> , 2019, 7, 21917-21947.	4.2	32
43	Benchmarking large-scale data management for Internet of Things. <i>Journal of Supercomputing</i> , 2019, 75, 8207-8230.	3.6	7
44	Fuzzy Ontology and LSTM-based Text Mining: A Transportation Network Monitoring System for Assisting Travel. <i>Sensors</i> , 2019, 19, 234.	3.8	59
45	A Comprehensive Medical Decision Support Framework Based on a Heterogeneous Ensemble Classifier for Diabetes Prediction. <i>Electronics (Switzerland)</i> , 2019, 8, 635.	3.1	23
46	A mobile health monitoring-and-treatment system based on integration of the SSN sensor ontology and the HL7 FHIR standard. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 97.	3.0	57
47	Transportation sentiment analysis using word embedding and ontology-based topic modeling. <i>Knowledge-Based Systems</i> , 2019, 174, 27-42.	7.1	131
48	A unified fuzzy ontology for distributed electronic health record semantic interoperability. , 2019, , 353-395.		4
49	Reasoning methodologies in clinical decision support systems: A literature review. , 2019, , 61-87.		4
50	Ontology enhanced fuzzy clinical decision support system. , 2019, , 147-177.		2
51	A Fibrosis Diagnosis Clinical Decision Support System Using Fuzzy Knowledge. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 3781-3800.	3.0	5
52	Ontology-based electronic health record semantic interoperability: A survey. , 2019, , 315-352.		8
53	Distributed electronic health record based on semantic interoperability using fuzzy ontology: a survey. <i>International Journal of Computers and Applications</i> , 2018, 40, 223-241.	1.3	9
54	Clinical Decision Support System for Liver Fibrosis Prediction in Hepatitis Patients: A Case Comparison of Two Soft Computing Techniques. <i>IEEE Access</i> , 2018, 6, 52911-52929.	4.2	23

#	ARTICLE	IF	CITATIONS
55	Priority-Based Cloud Computing Architecture for Multimedia-Enabled Heterogeneous Vehicular Users. Journal of Advanced Transportation, 2018, 2018, 1-12.	1.7	11
56	SNOMED CT standard ontology based on the ontology for general medical science. BMC Medical Informatics and Decision Making, 2018, 18, 76.	3.0	55
57	An Ontology-Based Interpretable Fuzzy Decision Support System for Diabetes Diagnosis. IEEE Access, 2018, 6, 37371-37394.	4.2	58
58	DMTO: a realistic ontology for standard diabetes mellitus treatment. Journal of Biomedical Semantics, 2018, 9, 8.	1.6	60
59	A framework for chronic kidney disease diagnosis based on case based reasoning. International Journal of Advanced Computer Research, 2018, 8, 59-71.	1.0	8
60	A fuzzy ontology modeling for case base knowledge in diabetes mellitus domain. Engineering Science and Technology, an International Journal, 2017, 20, 1025-1040.	3.2	27
61	Merged Ontology and SVM-Based Information Extraction and Recommendation System for Social Robots. IEEE Access, 2017, 5, 12364-12379.	4.2	40
62	Medical Case Based Reasoning Frameworks. International Journal of Decision Support System Technology, 2016, 8, 31-62.	0.7	7
63	DDO: a diabetes mellitus diagnosis ontology. Applied Informatics, 2016, 3, .	0.5	36
64	An encoding methodology for medical knowledge using SNOMED CT ontology. Journal of King Saud University - Computer and Information Sciences, 2016, 28, 311-329.	3.9	8
65	A fuzzy-ontology-oriented case-based reasoning framework for semantic diabetes diagnosis. Artificial Intelligence in Medicine, 2015, 65, 179-208.	6.5	89
66	A diabetes diagnostic domain ontology for CBR system from the conceptual model of SNOMED CT. , 2014, , .		14
67	A standard fragment of EHR relational data model for diabetes mellitus diagnosis. , 2014, , .		2
68	A proposed SNOMED CT ontology-based encoding methodology for diabetes diagnosis case-base. , 2014, , .		4
69	An Ontological Case Base Engineering Methodology for Diabetes Management. Journal of Medical Systems, 2014, 38, 67.	3.6	24
70	A Fuzzy Ontological Infrastructure for Semantic Interoperability in Distributed Electronic Health Record. Intelligent Automation and Soft Computing, 0, , -1-1.	2.1	4