Ketan Kotecha

List of Publications by Year in descending order

181 papers	3,617 citations	201385 27 h-index	182168 51 g-index
186 all docs	186 docs citations	186 times ranked	1884 citing authors

#	Article	IF	Citations
1	Securing Industrial Control Systems From Cyber-Attacks: A Stacked Neural-Network-Based Approach. IEEE Consumer Electronics Magazine, 2024, 13, 30-38.	2.3	2
2	Employing Co-Learning to Evaluate the Explainability of Multimodal Sentiment Analysis. IEEE Transactions on Computational Social Systems, 2024, , 1-8.	3.2	2
3	Context–aware assistive driving: an overview of techniques for mitigating the risks of driver in real-time driving environment. International Journal of Pervasive Computing and Communications, 2023, 19, 325-342.	1.1	1
4	Recop: fine-grained opinions and sentiments-based recommender system for industry 5.0. Soft Computing, 2023, 27, 4051-4060.	2.1	8
5	Linear Regression and Artificial Neural Network (ANN)-based Approaches to Predict Air Pollution. , 2023, , 497-511.		2
6	Enhanced lung image segmentation using deep learning. Neural Computing and Applications, 2023, 35, 22839-22853.	3.2	42
7	IoT-Driven Artificial Intelligence Technique for Fertilizer Recommendation Model. IEEE Consumer Electronics Magazine, 2023, 12, 109-117.	2.3	28
8	Employing multimodal co-learning to evaluate the robustness of sensor fusion for industry 5.0 tasks. Soft Computing, 2023, 27, 4139-4155.	2.1	6
9	Static and Dynamic Isolated Indian and Russian Sign Language Recognition with Spatial and Temporal Feature Detection Using Hybrid Neural Network. ACM Transactions on Asian and Low-Resource Language Information Processing, 2023, 22, 1-23.	1.3	10
10	An efficient, provably-secure DAG based consensus mechanism for industrial internet of things. International Journal on Interactive Design and Manufacturing, 2023, 17, 2197-2207.	1.3	2
11	Smart epidemic tunnel: IoT-based sensor-fusion assistive technology for COVID-19 disinfection. International Journal of Pervasive Computing and Communications, 2022, 18, 376-387.	1.1	29
12	Impact of Human Mobility Trends on the Outbreak of COVID-19 Across Different States of India. Advances in Healthcare Information Systems and Administration Book Series, 2022, , 241-255.	0.2	0
13	Performance evaluation for tool wear prediction based on Bi-directional, Encoder–Decoder and Hybrid Long Short-Term Memory models. International Journal of Quality and Reliability Management, 2022, 39, 1551-1576.	1.3	9
14	Multimodal Co-learning: Challenges, applications with datasets, recent advances and future directions. Information Fusion, 2022, 81, 203-239.	11.7	63
15	Review on Epileptic Seizure Prediction: Machine Learning and Deep Learning Approaches. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-17.	0.7	38
16	Efficient Approach towards Detection and Identification of Copy Move and Image Splicing Forgeries Using Mask R-CNN with MobileNet V1. Computational Intelligence and Neuroscience, 2022, 2022, 1-21.	1.1	20
17	4PCDT: A Quantifiable Parameter-based Framework for Academic Software Project Management. International Journal of Advanced Computer Science and Applications, 2022, 13, .	0.5	0
18	Prediction of Network Traffic in Wireless Mesh Networks Using Hybrid Deep Learning Model. IEEE Access, 2022, 10, 7003-7015.	2.6	20

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19	An Efficient Multi-Scale Anchor Box Approach to Detect Partial Faces from a Video Sequence. Big Data and Cognitive Computing, 2022, 6, 9.	2.9	8
20	A Low-Cost Multi-Sensor Data Acquisition System for Fault Detection in Fused Deposition Modelling. Sensors, 2022, 22, 517.	2.1	29
21	Cardiac Diagnosis with Machine Learning: A Paradigm Shift in Cardiac Care. Applied Artificial Intelligence, 2022, 36, .	2.0	2
22	Using Genetic Algorithm in Inner Product to Resist Modular Exponentiation From Higher Order DPA Attacks. IEEE Access, 2022, 10, 3238-3251.	2.6	5
23	IoT Framework for Measurement and Precision Agriculture: Predicting the Crop Using Machine Learning Algorithms. Technologies, 2022, 10, 13.	3.0	31
24	Region-Based Hybrid Medical Image Watermarking Scheme for Robust and Secured Transmission in IoMT. IEEE Access, 2022, 10, 8974-8993.	2.6	37
25	Framework for Deep Learning-Based Language Models Using Multi-Task Learning in Natural Language Understanding: A Systematic Literature Review and Future Directions. IEEE Access, 2022, 10, 17078-17097.	2.6	28
26	Design of Energy Efficient WSN Using a Noble SMOWA Algorithm. Computers, Materials and Continua, 2022, 72, 3585-3600.	1.5	3
27	An Evolutionary Normalization Algorithm for Signed Floating-Point Multiply-Accumulate Operation. Computers, Materials and Continua, 2022, 72, 481-495.	1.5	0
28	Detecting and Fact-checking Misinformation using â€œVeracity Scanning Modelâ€. International Journal of Advanced Computer Science and Applications, 2022, 13, .	0.5	4
29	Fuzzy System Design Using Current Amplifier for 20â€¦nm CMOS Technology. Computers, Materials and Continua, 2022, 72, 1815-1829.	1.5	1
30	DBTechVoc: A POS-tagged Vocabulary of Tokens and Lemmata of the Database Technical Domain. International Journal of Advanced Computer Science and Applications, 2022, 13, .	0.5	0
31	Bio-Signals in Medical Applications and Challenges Using Artificial Intelligence. Journal of Sensor and Actuator Networks, 2022, 11, 17.	2.3	19
32	Deep dive in retinal fundus image segmentation using deep learning for retinopathy of prematurity. Multimedia Tools and Applications, 2022, 81, 11441-11460.	2.6	15
33	Somewhat Homomorphic Encryption: Ring Learning with Error Algorithm for Faster Encryption of IoT Sensor Signal-Based Edge Devices. Security and Communication Networks, 2022, 2022, 1-10.	1.0	15
34	Enhanced Security Against Volumetric DDoS Attacks Using Adversarial Machine Learning. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	10
35	ECG Data Analysis with Denoising Approach and Customized CNNs. Sensors, 2022, 22, 1928.	2.1	9
36	MRI Brain Tumor Image Classification Using a Combined Feature and Image-Based Classifier. Frontiers in Psychology, 2022, 13, 848784.	1.1	20

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37	Few-Shot learning for face recognition in the presence of image discrepancies for limited multi-class datasets. Image and Vision Computing, 2022, 120, 104420.	2.7	17
38	A systematic literature review on software defect prediction using artificial intelligence: Datasets, Data Validation Methods, Approaches, and Tools. Engineering Applications of Artificial Intelligence, 2022, 111, 104773.	4.3	47
39	SDPTool : A tool for creating datasets and software defect predictions. SoftwareX, 2022, 18, 101036.	1.2	0
40	Credibility Analysis of User-Designed Content Using Machine Learning Techniques. Applied System Innovation, 2022, 5, 43.	2.7	7
41	Case studies on simulations of flow-induced vibrations of a cooled circular cylinder: Incompressible flow solver for moving mesh problem. Case Studies in Thermal Engineering, 2022, 34, 102030.	2.8	8
42	Deep Learning Approaches for Video Compression: A Bibliometric Analysis. Big Data and Cognitive Computing, 2022, 6, 44.	2.9	24
43	Optimized hybrid RNN model for human activity recognition in untrimmed video. Journal of Electronic Imaging, 2022, 31, .	0.5	3
44	Target-DBPPred: An intelligent model for prediction of DNA-binding proteins using discrete wavelet transform based compression and light eXtreme gradient boosting. Computers in Biology and Medicine, 2022, 145, 105533.	3.9	12
45	A Novel Framework for Sanskrit-Gujarati Symbolic Machine Translation System. International Journal of Advanced Computer Science and Applications, 2022, 13, .	0.5	1
46	A Novel Evolving Sentimental Bag-of-Words Approach for Feature Extraction to Detect Misinformation. International Journal of Advanced Computer Science and Applications, 2022, 13, .	0.5	6
47	Deep Learning Approach for Spoken Digit Recognition in Gujarati Language. International Journal of Advanced Computer Science and Applications, 2022, 13, .	0.5	1
48	A Novel Morphological Analysis based Approach for Dynamic Detection of Inflected Gujarati Idioms. International Journal of Advanced Computer Science and Applications, 2022, 13, .	0.5	0
49	Improving the Accuracy of Ensemble Machine Learning Classification Models Using a Novel Bit-Fusion Algorithm for Healthcare AI Systems. Frontiers in Public Health, 2022, 10, .	1.3	8
50	Generalized Susceptible–Exposed–Infectious–Recovered model and its contributing factors for analysing the death and recovery rates of the COVID-19 pandemic. Applied Soft Computing Journal, 2022, 123, 108973.	4.1	5
51	CD-SemMF: Cross-Domain Semantic Relatedness Based Matrix Factorization Model Enabled With Linked Open Data for User Cold Start Issue. IEEE Access, 2022, 10, 52955-52970.	2.6	4
52	Driver Drowsiness Prediction Based on Multiple Aspects Using Image Processing Techniques. IEEE Access, 2022, 10, 54980-54990.	2.6	11
53	FVEstimator: A novel food volume estimator Wellness model for calorie measurement and healthy living. Measurement: Journal of the International Measurement Confederation, 2022, 198, 111294.	2.5	8
54	Sustainable Smart Industry: A Secure and Energy Efficient Consensus Mechanism for Artificial Intelligence Enabled Industrial Internet of Things. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	11

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55	An Efficient Gait Abnormality Detection Method Based on Classification. Journal of Sensor and Actuator Networks, 2022, 11, 31.	2.3	4
56	Influence of bed temperature on performance of silica gel/methanol adsorption refrigeration system at adsorption equilibrium. Particulate Science and Technology, 2021, 39, 624-631.	1.1	13
57	A Novel Multicast Secure MQTT Messaging Protocol Framework for IoT-Related Issues. Lecture Notes in Networks and Systems, 2021, , 339-359.	0.5	2
58	Data-Driven Remaining Useful Life Estimation for Milling Process: Sensors, Algorithms, Datasets, and Future Directions. IEEE Access, 2021, 9, 110255-110286.	2.6	44
59	Role of Artificial Intelligence in Detection of Hateful Speech for Hinglish Data on Social Media. Lecture Notes in Electrical Engineering, 2021, , 83-95.	0.3	6
60	Neural Style Transfer: A Critical Review. IEEE Access, 2021, 9, 131583-131613.	2.6	15
61	Integration of Explainable AI and Blockchain for Secure Storage of Human Readable Justifications for Credit Risk Assessment. Communications in Computer and Information Science, 2021, , 55-72.	0.4	2
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63	A Review on Explainability in Multimodal Deep Neural Nets. IEEE Access, 2021, 9, 59800-59821.	2.6	78
64	Multi-Layout Unstructured Invoice Documents Dataset: A Dataset for Template-Free Invoice Processing and Its Evaluation Using AI Approaches. IEEE Access, 2021, 9, 101494-101512.	2.6	10
65	Corrections to â€œArtificial Perception of the Beverages: An In-Depth Review of the Tea Sampleâ€. IEEE Access, 2021, 9, 100735-100735.	2.6	0
66	Behavior Prediction of Traffic Actors for Intelligent Vehicle Using Artificial Intelligence Techniques: A Review. IEEE Access, 2021, 9, 135034-135058.	2.6	10
67	Deep Learning-Based Framework for Retinal Vasculature Segmentation. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 275-290.	0.5	1
68	Using Blockchain and Distributed Machine Learning to Manage Decentralized but Trustworthy Disease Data. Science and Technology Libraries, 2021, 40, 190-213.	0.8	2
69	Tweets Reporting Abuse Classification Task: TRACT. Advances in Intelligent Systems and Computing, 2021, , 305-314.	0.5	0
70	Artificial Perception of the Beverages: An In-Depth Review of the Tea Sample. IEEE Access, 2021, 9, 82761-82785.	2.6	6
71	Precision Agriculture: Methodologies, Practices and Applications. Lecture Notes in Networks and Systems, 2021, , 163-181.	0.5	2
72	Smart Aging Wellness Sensor Networks: A Near Real-Time Daily Activity Health Monitoring, Anomaly Detection and Alert System. Lecture Notes in Networks and Systems, 2021, , 3-21.	0.5	5

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73	ADMT: Advanced Driver's Movement Tracking System Using Spatio-Temporal Interest Points and Maneuver Anticipation Using Deep Neural Networks. IEEE Access, 2021, 9, 99312-99326.	2.6	6
74	Efficient Automated Processing of the Unstructured Documents Using Artificial Intelligence: A Systematic Literature Review and Future Directions. IEEE Access, 2021, 9, 72894-72936.	2.6	27
75	Deep learning based respiratory sound analysis for detection of chronic obstructive pulmonary disease. PeerJ Computer Science, 2021, 7, e369.	2.7	74
76	Comparison of machine learning and deep learning techniques in promoter prediction across diverse species. PeerJ Computer Science, 2021, 7, e365.	2.7	19
77	Cervical cancer detection in pap smear whole slide images using convNet with transfer learning and progressive resizing. PeerJ Computer Science, 2021, 7, e348.	2.7	55
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80	Stance detection with BERT embeddings for credibility analysis of information on social media. PeerJ Computer Science, 2021, 7, e467.	2.7	17
81	COVID-19 pulmonary consolidations detection in chest X-ray using progressive resizing and transfer learning techniques. Heliyon, 2021, 7, e07211.	1.4	18
82	Machine learning techniques and older adults processing of online information and misinformation: A covid 19 study. Computers in Human Behavior, 2021, 119, 106716.	5.1	73
83	Applying and Understanding an Advanced, Novel Deep Learning Approach: A Covid 19, Text Based, Emotions Analysis Study. Information Systems Frontiers, 2021, 23, 1431-1465.	4.1	31
84	Multiscale Object Detection from Drone Imagery Using Ensemble Transfer Learning. Drones, 2021, 5, 66.	2.7	30
85	Multi-Layout Invoice Document Dataset (MIDD): A Dataset for Named Entity Recognition. Data, 2021, 6, 78.	1.2	3
86	Assistive Framework for Automatic Detection of All the Zones in Retinopathy of Prematurity Using Deep Learning. Journal of Digital Imaging, 2021, 34, 932-947.	1.6	19
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90	Blockchain for Securing AI Applications and Open Innovations. Journal of Open Innovation: Technology, Market, and Complexity, 2021, 7, 189.	2.6	28

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92	AI Based Emotion Detection for Textual Big Data: Techniques and Contribution. Big Data and Cognitive Computing, 2021, 5, 43.	2.9	26
93	ADVENT: Advance Driver's in-VEhicle movemeNt Tracking algorithm for semi-autonomous assistive driving. , 2021, , 20-25.		0
94	Sustainable Development of Smart Manufacturing Driven by the Digital Twin Framework: A Statistical Analysis. Sustainability, 2021, 13, 10139.	1.6	35
95	Sustainability Analysis of a ZnO-NaCl-Based Capacitor Using Accelerated Life Testing and an Intelligent Modeling Approach. Sustainability, 2021, 13, 10736.	1.6	5
96	AHP validated literature review of forgery type dependent passive image forgery detection with explainable AI. International Journal of Electrical and Computer Engineering, 2021, 11, 4489.	0.5	4
97	Development and deployment of a generative model-based framework for text to photorealistic image generation. Neurocomputing, 2021, 463, 1-16.	3.5	7
98	Micro-mechanical characterization of superficial layer synthesized by electric discharge machining process. Materials Letters, 2021, 305, 130769.	1.3	11
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100	Gas Detection and Identification Using Multimodal Artificial Intelligence Based Sensor Fusion. Applied System Innovation, 2021, 4, 3.	2.7	31
101	Explainable stock prices prediction from financial news articles using sentiment analysis. PeerJ Computer Science, 2021, 7, e340.	2.7	40
102	Explainable AI for Multimodal Credibility Analysis: Case Study of Online Beauty Health (Mis)-Information. IEEE Access, 2021, 9, 127985-128022.	2.6	5
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104	A Novel Algorithm for Capacitated Vehicle Routing Problem for Smart Cities. Symmetry, 2021, 13, 1923.	1.1	19
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110	Employing Multimodal Machine Learning for Stress Detection. Journal of Healthcare Engineering, 2021, 2021, 1-12.	1.1	28
111	A Review of Maximum Power Point Tracking Algorithms for Wind Energy Conversion Systems. Journal of Marine Science and Engineering, 2021, 9, 1187.	1.2	51
112	Detection and Localization of Multiple Image Splicing Using MobileNet V1. IEEE Access, 2021, 9, 162499-162519.	2.6	27
113	Evaluating the Performance of Ensemble Methods and Voting Strategies for Dense 2D Pedestrian Detection in the Wild. , 2021, , .		3
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116	Identification and Classification of the Tea Samples by Using Sensory Mechanism and Arduino UNO. Inventions, 2021, 6, 94.	1.3	3
117	Assessment of the Benefits of Information and Communication Technologies (ICT) Adoption on Downstream Supply Chain Performance of the Retail Industry. Logistics, 2021, 5, 80.	2.4	5
118	An Efficient Deep Convolutional Neural Network Approach for Object Detection and Recognition Using a Multi-Scale Anchor Box in Real-Time. Future Internet, 2021, 13, 307.	2.4	9
119	Multi-Ideology ISIS/Jihadist White Supremacist (MIWS) Dataset for Multi-Class Extremism Text Classification. Data, 2021, 6, 117.	1.2	3
120	A Deep Learning Model Based on BERT and Sentence Transformer for Semantic Keyphrase Extraction on Big Social Data. IEEE Access, 2021, 9, 165252-165261.	2.6	20
121	Improved Otsu and Kapur approach for white blood cells segmentation based on LebTLBO optimization for the detection of Leukemia. Mathematical Biosciences and Engineering, 2021, 19, 1970-2001.	1.0	12
122	IT Infrastructure Anomaly Detection and Failure Handling: A Systematic Literature Review Focusing on Datasets, Log Preprocessing, Machine & Deep Learning Approaches and Automated Tool. IEEE Access, 2021, 9, 156392-156421.	2.6	9
123	Comprehensive Genomic Subtyping of Glioma Using Semi-Supervised Multi-Task Deep Learning on Multimodal MRI. IEEE Access, 2021, 9, 167900-167910.	2.6	6
124	A Survey of AI-Based Facial Emotion Recognition: Features, ML & DL Techniques, Age-Wise Datasets and Future Directions. IEEE Access, 2021, 9, 165806-165840.	2.6	27
125	Hybrid Deep Neural Network for Handling Data Imbalance in Precursor MicroRNA. Frontiers in Public Health, 2021, 9, 821410.	1.3	4
126	Lifetime estimation of tantalum capacitor for mobile applications using empirical and experimental techniques: a DOE approach. International Journal of Quality and Reliability Management, 2021, ahead-of-print, .	1.3	1

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127	Real-Time Automatic Investigation of Indian Roadway Animals by 3D Reconstruction Detection Using Deep Learning for R-3D-YOLOv3 Image Classification and Filtering. Electronics (Switzerland), 2021, 10, 3079.	1.8	8
128	An Explainable Intelligence Driven Query Prioritization Using Balanced Decision Tree Approach for Multi-Level Psychological Disorders Assessment. Frontiers in Public Health, 2021, 9, 795007.	1.3	15
129	Memcached: An Experimental Study of DDoS Attacks for the Wellbeing of IoT Applications. Sensors, 2021, 21, 8071.	2.1	2
130	Data augmentation using MG-GAN for improved cancer classification on gene expression data. Soft Computing, 2020, 24, 11381-11391.	2.1	57
131	Pollution Weather Prediction System: Smart Outdoor Pollution Monitoring and Prediction for Healthy Breathing and Living. Sensors, 2020, 20, 5448.	2.1	17
132	Improved route selection algorithm based on TORA over mobile adhoc network. Journal of Discrete Mathematical Sciences and Cryptography, 2020, 23, 617-629.	0.5	5
133	Incremental personalized E-mail spam filter using novel TFDCR feature selection with dynamic feature update. Expert Systems With Applications, 2019, 115, 287-299.	4.4	26
134	Early anticipation of driverâ€™s maneuver in semiautonomous vehicles using deep learning. Progress in Artificial Intelligence, 2019, 8, 293-305.	1.5	12
135	A Roadmap to Deep Learning: A State-of-the-Art Step Towards Machine Learning. Communications in Computer and Information Science, 2019, , 160-170.	0.4	3
136	ACO Based Scheduling Method for Soft RTOS with Simulation and Mathematical Proofs. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 4736-4740.	0.2	1
137	Object Detection from Video Sequences Using Deep Learning: An Overview. Advances in Intelligent Systems and Computing, 2018, , 137-148.	0.5	1
138	Forecasting the behaviour of Trending Terms in Microblogs. , 2018, , .		1
139	A Deep Learning Approach for Face Detection using YOLO. , 2018, , .		53
140	Smart Home Anti-Theft System: A Novel Approach for Near Real-Time Monitoring and Smart Home Security for Wellness Protocol. Applied System Innovation, 2018, 1, 42.	2.7	28
141	Implementation of Novel Load Balancing Technique in Cloud Computing Environmen. , 2018, , .		12
142	Load balancing in cloud computing: Methodological survey on different types of algorithm. , 2017, , .		29
143	Personalized spam filtering using incremental training of support vector machine. , 2016, , .		3
144	Are we there Yet! Inclusion of Higher Order Thinking Skills (HOTs) in Assessment. Journal of Engineering Education Transformations, 2016, .	0.3	6

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146	A new Bollinger Band based energy efficient routing for clustered wireless sensor network. Applied Soft Computing Journal, 2015, 32, 144-153.	4.1	36
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148	Predicting stock and stock price index movement using Trend Deterministic Data Preparation and machine learning techniques. Expert Systems With Applications, 2015, 42, 259-268.	4.4	667
149	Defining Learning Outcomes of Co-Curricular Activities: Integrating Desired Commonalities. Journal of Engineering Education Transformations, 2015, .	0.3	2
150	Formative Assessment through Computer Mediation: Enriching Student Engagement. Journal of Engineering Education Transformations, 2015, .	0.3	0
151	Alive Nodes Based Improved Low Energy Adaptive Clustering Hierarchy for Wireless Sensor Network. Smart Innovation, Systems and Technologies, 2014, , 51-58.	0.5	7
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153	Simulation Based Performance of Mumbai-Pune Expressway Scenario for Vehicle-to-Vehicle Communication Using IEEE 802.11P. Transport and Telecommunication, 2013, 14, 300-315.	0.7	2
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155	Parallelized ACO based Routing for Stagnation Mitigation and Avoidance of Multimedia Traffic Over MANETs. International Journal of Applied Evolutionary Computation, 2013, 4, 39-55.	0.7	0
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159	ACO Based Dynamic Scheduling Algorithm for Real-Time Multiprocessor Systems. International Journal of Grid and High Performance Computing, 2011, 3, 20-30.	0.7	4
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165	Routing in Ad Hoc Network Using Ant Colony Optimization. Communications in Computer and Information Science, 2010, , 393-404.	0.4	3
166	Trust Based Routing in Ad Hoc Network. Communications in Computer and Information Science, 2010, , 381-392.	0.4	2
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168	Comparative study of Distributed Intrusion Detection in Ad-hoc Networks. International Journal of Computer Applications, 2010, 8, 11-16.	0.2	4
169	Adaptive Scheduling Algorithm for Real-Time Multiprocessor Systems. , 2009, , .		8
170	Adaptive scheduling algorithm for real-time operating system. , 2008, , .		18
171	Multi objective genetic algorithm based adaptive QoS routing in MANET. , 2007, , .		15
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