Dhiya Al-Jumeily

List of Publications by Year
in descending order

197 papers	**2,358** citations

394421

19 h-index	

345221

36 g-index	

220 all docs	**220** docs citations
220 times ranked	**2137** citing authors

#	Article	IF	Citations
1	Human Body Pose Estimation for Gait Identification: A Comprehensive Survey of Datasets and Models. ACM Computing Surveys, 2023, 55, 1-42.	23.0	12
2	Brain Tumor and Glioma Grade Classification Using Gaussian Convolutional Neural Network. IEEE Access, 2022, 10, 29731-29740.	4.2	59
3	Evaluation of 5G Coexistence and Interference Signals in the C-Band Satellite Earth Station. IEEE Transactions on Vehicular Technology, 2022, 71, 6189-6200.	6.3	6
4	Evaluating student levelling based on machine learning model's performance. Discover Internet of Things, 2022, 2, .	4.8	6
5	Machine Learning Approaches and Applications in Genome Wide Association Study for Alzheimer's Disease: A Systematic Review. IEEE Access, 2022, 10, 62831-62847.	4.2	7
6	An Efficient Multi-Cloud Service Composition Using a Distributed Multiagent-Based, Memory-Driven Approach. IEEE Transactions on Sustainable Computing, 2021, 6, 358-369.	3.1	20
7	Review of Methods for Data Collection Experiments with People with Dementia and the Impact of COVID-19. Lecture Notes in Computer Science, 2021, , 132-147.	1.3	2
8	Semantic <scp>eSystems</scp>: Engineering methods, techniques, and tools. Software - Practice and Experience, 2021, 51, 487-488.	3.6	0
9	Wireless Powered Mobile Edge Computing Systems: Simultaneous Time Allocation and Offloading Policies. Electronics (Switzerland), 2021, 10, 965.	3.1	5
10	Dataset of student level prediction in UAE. Data in Brief, 2021, 35, 106908.	1.0	2
11	Coupling of quantile regression into boosted regression trees (BRT) technique in forecasting emission model of PM10 concentration. Air Quality, Atmosphere and Health, 2021, 14, 1647-1663.	3.3	14
12	A fusion of data science and feed-forward neural network-based modelling of COVID-19 outbreak forecasting in IRAQ. Journal of Biomedical Informatics, 2021, 118, 103766.	4.3	15
13	Performance Analysis and Beamforming Design of a Secure Cooperative MISO-NOMA Network. Sensors, 2021, 21, 4180.	3.8	8
14	Smart Application Division and Time Allocation Policy for Computational Offloading in Wireless Powered Mobile Edge Computing. Mobile Information Systems, 2021, 2021, 1-13.	0.6	2
15	A secure remote user authentication scheme for 6LoWPAN-based Internet of Things. PLoS ONE, 2021, 16, e0258279.	2.5	19
16	An Ensemble Detection Model Using Multinomial Classification of Stochastic Gas Smart Meter Data to Improve Wellbeing Monitoring in Smart Cities. IEEE Access, 2020, 8, 7877-7898.	4.2	9
17	Energy efficient electrocoagulation using baffle-plates electrodes for efficient Escherichia coli removal from wastewater. Journal of Water Process Engineering, 2020, 33, 101079.	5.6	107
18	Estimating Road Traffic Capacity. IEEE Access, 2020, 8, 228525-228547.	4.2	4

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19	IoT-Enabled Flood Severity Prediction via Ensemble Machine Learning Models. IEEE Access, 2020, 8, 70375-70386.	4.2	41
20	Lossy and Lossless Video Frame Compression: A Novel Approach for High-Temporal Video Data Analytics. Remote Sensing, 2020, 12, 1004.	4.0	2
21	The Application of Artificial Intelligence Technology in Healthcare: A Systematic Review. Communications in Computer and Information Science, 2020, , 248-261.	0.5	15
22	Age Group Detection in Stochastic Gas Smart Meter Data Using Decision-Tree Learning. Lecture Notes in Computer Science, 2019, , 593-605.	1.3	1
23	An Application of Using Support Vector Machine Based on Classification Technique for Predicting Medical Data Sets. Lecture Notes in Computer Science, 2019, , 580-591.	1.3	9
24	Patients Attitude to Technology. Journal of Medical Systems, 2019, 43, 295.	3.6	7
25	A systematic review on the status and progress of homomorphic encryption technologies. Journal of Information Security and Applications, 2019, 48, 102362.	2.5	45
26	Classifying Periodic Astrophysical Phenomena from non-survey optimized variable-cadence observational data. Expert Systems With Applications, 2019, 131, 94-115.	7.6	4
27	Boundary Delineation of MRI Images for Lumbar Spinal Stenosis Detection Through Semantic Segmentation Using Deep Neural Networks. IEEE Access, 2019, 7, 43487-43501.	4.2	56
28	Application of Convolutional Neural Networks for Automated Ulcer Detection in Wireless Capsule Endoscopy Images. Sensors, 2019, 19, 1265.	3.8	119
29	Comparing Unsupervised Layers in Neural Networks for Financial Time Series Prediction. , 2019, , .		0
30	Review of Medical Simulation Training for Endovascular Thrombectomy. , 2019, , .		3
31	Investigating the Mechanical and Durability Performance of Cement Mortar Incorporated Modified Fly Ash and Ground Granulated Blast Furnace Slag as Cement Replacement Materials. , 2019, , .		8
32	Implementation of machine learning algorithms to create diabetic patient re-admission profiles. BMC Medical Informatics and Decision Making, 2019, 19, 253.	3.0	29
33	Evaluation of the Dynamic Cybersecurity Risk Using the Entropy Weight Method. , 2018, , 271-287.		6
34	A Novel Artificial Neural Network Scheme for Modelling of Nonlinear Soil Stress-Strain Modulus Exponent. , 2018, , .		1
35	H-Diary: Mobile Application for Headache Diary and Remote Patient Monitoring. , 2018, , .		8
36	Application of Machine Learning on Student Data for the Appraisal of Academic Performance. , 2018, , .		10

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37	Healthcare Services Innovations Based on the State of the Art Technology Trend Industry 4.0. , 2018, , .		34
38	Smart Home Systems Security. , 2018, , .		7
39	Robust Interpretation of Genomic Data in Chronic Obstructive Pulmonary Disease (COPD). , 2018, , .		1
40	Sustainable and Environmental Friendly Ancient Reed Houses (Inspired by the Past to Motivate the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		8
41	An Enhanced Neural Network Scheme to Model Pile Load-Deformation Under Uplift Loading. , 2018, , .		0
42	Data Science to Improve Patient Management System. , 2018, , .		10
43	Segmentation of Lumbar Spine MRI Images for Stenosis Detection Using Patch-Based Pixel Classification Neural Network. , 2018, , .		12
44	GRAPE: Genetic Routine for Astronomical Period Estimation. Monthly Notices of the Royal Astronomical Society, 2018, 479, 5196-5213.	4.4	2
45	Forecasting Natural Events Using Axonal Delay. , 2018, , .		1
46	IoT-Fog Optimal Workload via Fog Offloading. , 2018, , .		47
47	Deep Learning Classification of Polygenic Obesity using Genome Wide Association Study SNPs. , 2018, , .		27
48	A Data Science Methodology Based on Machine Learning Algorithms for Flood Severity Prediction. , 2018, , .		25
49	Early Prediction of Chronic Kidney Disease Using Machine Learning Supported by Predictive Analytics. , 2018, , .		63
50	A Study of Data Classification and Selection Techniques to Diagnose Headache Patients. , 2018, , 121-134.		10
51	GreeAODV: An Energy Efficient Routing Protocol for Vehicular Ad Hoc Networks. Lecture Notes in Computer Science, 2018, , 670-681.	1.3	32
52	Classification of Foetal Distress and Hypoxia Using Machine Learning Approaches. Lecture Notes in Computer Science, 2018, , 767-776.	1.3	10
53	Big Data and Data Science Applications for Independent and Healthy Living. , 2018, , 77-111.		2
54	Gamification in e-Governance. , 2017, , .		11

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55	Machine learning approaches to the application of disease modifying therapy for sickle cell using classification models. Neurocomputing, 2017, 228, 154-164.	5.9	33
56	The classification of periodic light curves from non-survey optimized observational data through automated extraction of phase-based visual features. , 2017, , .		4
57	Towards the discrimination of primary and secondary headache: An intelligent systems approach. , 2017, , .		5
58	A robust method for the interpretation of genomic data. , 2017, , .		1
59	Machine learning approaches for the prediction of obesity using publicly available genetic profiles. , 2017, , .		26
60	A machine learning approach to measure and monitor physical activity in children. Neurocomputing, 2017, 228, 220-230.	5.9	13
61	A Robust Spatially Invariant Model for Latent Fingerprint Authentication Approach. , 2017, , .		1
62	Recurrent Neural Network Architectures for Analysing Biomedical Data Sets. , 2017, , .		12
63	Impacts and Benefits of Health Informatics in Saudi Arabia: A Weblink Pilot Project. , 2017, , .		0
64	Dynamic Area of Interest Management for Massively Multiplayer Online Games Using OPNET. , 2017, , .		1
65	Detecting the Disc Herniation in Segmented Lumbar Spine MR Image Using Centroid Distance Function. , 2017, , .		3
66	The FL-SMIA Network: A Novel Architecture for Time Series Prediction. , 2017, , .		1
67	Development of an Interactive System to Enhance Strategic Planning Process and Quality of Aviation Operations Using Balanced Scorecard: A UAE Case study. , 2017, , .		1
68	Classification of caesarean section and normal vaginal deliveries using foetal heart rate signals and advanced machine learning algorithms. BioMedical Engineering OnLine, 2017, 16, 89.	2.7	51
69	Using aspect oriented programming to enforce privacy preserving communication in distributed systems. , 2017, , .		1
70	A Performance Evaluation of Systematic Analysis for Combining Multi-class Models for Sickle Cell Disorder Data Sets. Lecture Notes in Computer Science, 2017, , 115-121.	1.3	2
71	An Intelligent Systems Approach to Primary Headache Diagnosis. Lecture Notes in Computer Science, 2017, , 61-72.	1.3	12
72	Lumbar Spine Discs Labeling Using Axial View MRI Based on the Pixels Coordinate and Gray Level Features. Lecture Notes in Computer Science, 2017, , 107-116.	1.3	3

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73	Evaluation of Phenotype Classification Methods for Obesity Using Direct to Consumer Genetic Data. Lecture Notes in Computer Science, 2017, , 350-362.	1.3	2
74	Association Mapping Approach into Type 2 Diabetes Using Biomarkers and Clinical Data. Lecture Notes in Computer Science, 2017, , 325-336.	1.3	1
75	GAME-BASED LEARNING IN EFFORT TO ENHANCE PROMOTION OF MINORITY LANGUAGES. , 2017, , .		0
76	Simulation of Area of Interest Management for Massively Multiplayer Online Games Using OPNET. , 2016, , .		0
77	Cyber Security Risk Evaluation Research Based on Entropy Weight Method. , 2016, , .		10
78	The Effects of Premature Birth on Children Education. , 2016, , .		0
79	A mobile health monitoring application for obesity management and control using the internet-of-things. , 2016, , .		19
80	Evaluation of scalability and communication in MMOGs. , 2016, , .		4
81	A proposed tutoring system to support the learning of computer programming: Case Study. , 2016, , .		1
82	Simulation of Massively Multiplayer Online Games communication using OPNET custom application. , 2016, , .		2
83	A Dynamic, Modular Intelligent-Agent Framework for Astronomical Light Curve Analysis and Classification. Lecture Notes in Computer Science, 2016, , 820-831.	1.3	7
84	A Genetic Analytics Approach for Risk Variant Identification to Support Intervention Strategies for People Susceptible to Polygenic Obesity and Overweight. Lecture Notes in Computer Science, 2016, , 808-819.	1.3	1
85	A Framework on a Computer Assisted and Systematic Methodology for Detection of Chronic Lower Back Pain Using Artificial Intelligence and Computer Graphics Technologies. Lecture Notes in Computer Science, 2016, , 843-854.	1.3	12
86	Partially Synthesised Dataset to Improve Prediction Accuracy. Lecture Notes in Computer Science, 2016, , 855-866.	1.3	2
87	The utilisation of composite machine learning models for the classification of medical datasets for sickle cell disease. , 2016, , .		12
88	Regularized dynamic self-organized neural network inspired by the immune algorithm for financial time series prediction. Neurocomputing, 2016, 188, 23-30.	5.9	30
89	A machine learning system for automated whole-brain seizure detection. Applied Computing and Informatics, 2016, 12, 70-89.	5.9	115
90	Training Neural Networks as Experimental Models: Classifying Biomedical Datasets for Sickle Cell Disease. Lecture Notes in Computer Science, 2016, , 784-795.	1.3	9

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91	APPS FOR EDUCATION: DEVELOPMENT OF A VIRTUAL ROLE-PLAY SIMULATION APP FOR ACADEMIC TEACHERS AND STUDENTS. EDULEARN Proceedings, 2016, , .	0.0	0
92	Technology Acceptance Model for the Use of M-Health Services among Health Related Users in UAE. , 2015, , .		20
93	Teaching Primary School Children the Concept of Computer Programming. , 2015, , .		4
94	E-Government Implementation and Readiness: A Comparative Study between Saudi Arabia and Republic of Korea. , 2015, , .		1
95	Applied Difference Techniques of Machine Learning Algorithm and Web-Based Management System for Sickle Cell Disease. , 2015, , .		6
96	Improving Communication between Healthcare Professionals and Their Patients through a Prescription Tracking System. , 2015, , .		1
97	The Development of Fraud Detection Systems for Detection of Potentially Fraudulent Applications. , 2015, , .		3
98	The Impact of Social Media and Its Utilisation by Pharmaceutical Companies. , 2015, , .		0
99	An Investigation into Gender Disparities in the Field of Computing. , 2015, , .		1
100	A Novel Method of Early Diagnosis of Alzheimer's Disease Based on EEG Signals. Scientific World Journal, The, 2015, 2015, 1-11.	2.1	41
101	Automatic Epileptic Seizure Detection Using Scalp EEG and Advanced Artificial Intelligence Techniques. BioMed Research International, 2015, 2015, 1-17.	1.9	118
102	Using adaptive neural networks to provide self-healing autonomic software. International Journal of Space-Based and Situated Computing, 2015, 5, 129.	0.2	24
103	Context-Aware Clinical Knowledge Sharing in Cross-Boundary E-Health: A Conceptual Model. , 2015, , .		4
104	Improving the barrier of communication between healthcare professionals and their patients using a Prescription Tracking System. , 2015, , .		1
105	A dynamic cost-centric risk impact metrics development. , 2015, , .		0
106	Supporting young students to learn computer programming in an early schooling. , 2015, , .		1
107	The application of dynamic self-organised multilayer network inspired by the Immune Algorithm for weather signals forecast. , 2015, , .		0
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109	Applied machine learning classifiers for medical applications: Clarifying the behavioural patterns using a variety of datasets. , 2015, , .		4
110	Predicting the likelihood of heart failure with a multi level risk assessment using decision tree. , 2015, , .		40
111	Advance flood detection and notification system based on sensor technology and machine learning algorithm. , 2015, , .		18
112	A Systematic Comparison and Evaluation of Supervised Machine Learning Classifiers Using Headache Dataset. Lecture Notes in Computer Science, 2015, , 101-108.	1.3	5
113	Robust Approach for Medical Data Classification and Deploying Self-Care Management System for Sickle Cell Disease. , 2015, , .		8
114	The performance of immune-based neural network with financial time series prediction. Cogent Engineering, 2015, 2, 985005.	2.2	4
115	Survey of solutions for Peer-to-Peer MMOGs. , 2015, , .		4
116	Toward an optimal use of artificial intelligence techniques within a clinical decision support system. , 2015, , .		23
117	A Framework to Support Ubiquitous Healthcare Monitoring and Diagnostic for Sickle Cell Disease. Lecture Notes in Computer Science, 2015, , 665-675.	1.3	3
118	The utilisation of social media for bridging the gap between patients and pharmaceutical companies. , 2015, , .		1
119	Hybrid Neural Network Predictive-Wavelet Image Compression System. Neurocomputing, 2015, 151, 975-984.	5.9	30
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121	A Position Paper on Predicting the Onset of Nocturnal Enuresis Using Advanced Machine Learning. Lecture Notes in Computer Science, 2015, , 689-700.	1.3	3
122	Self-organized Neural Network Inspired by the Immune Algorithm for the Prediction of Speech Signals. Lecture Notes in Computer Science, 2015, , 654-664.	1.3	1
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124	Block Matching Algorithms for Motion Estimation â€" A Comparison Study. Advances in Intelligent Systems and Computing, 2014, , 359-369.	0.6	5
125	Exploring the Hidden Challenges Associated with the Evaluation of Multi-class Datasets Using Multiple Classifiers. , 2014, , .		1
126	EHMTI-0276. A novel mobile health application for patients with chronic headache. Journal of Headache and Pain, 2014, 15, .	6.0	1

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128	Early Detection Method of Alzheimer's Disease Using EEG Signals. Lecture Notes in Computer Science, 2014, , 25-33.	1.3	3
129	An Advanced Machine Learning Approach to Generalised Epileptic Seizure Detection. Lecture Notes in Computer Science, 2014, , 112-118.	1.3	4
130	Feature Analysis of Uterine Electrohystography Signal Using Dynamic Self-organised Multilayer Network Inspired by the Immune Algorithm. Lecture Notes in Computer Science, 2014, , 206-212.	1.3	5
131	Predicting Physical Time Series Using Dynamic Ridge Polynomial Neural Networks. PLoS ONE, 2014, 9, e105766.	2.5	16
132	Regularized Dynamic Self Organized Neural Network Inspired by the Immune Algorithm for Financial Time Series Prediction. Lecture Notes in Computer Science, 2014, , 56-62.	1.3	2
133	Physical Time Series Prediction Using Dynamic Neural Network Inspired by the Immune Algorithm. Lecture Notes in Computer Science, 2014, , 152-161.	1.3	0
134	Recurrent neural networks inspired by artificial immune algorithm for time series prediction. , 2013, , .		4
135	A Framework to Support E-Commerce Development for People with Visual Impairment. , 2013, , .		5
136	Assessing the Impact of Web-Based Technology on Learning Styles in Education. , 2013, , .		2
137	A Technology Acceptance Model for a User-Centred Culturally-Aware E-Health Design. , 2013, , .		1
138	Medical Diagnosis: Are Artificial Intelligence Systems Able to Diagnose the Underlying Causes of Specific Headaches?. , 2013, , .		8
139	A Mobile Multimedia Application Inspired by a Spaced Repetition Algorithm for Assistance with Speech and Language Therapy. , 2013, , .		1
140	Prediction of Preterm Deliveries from EHG Signals Using Machine Learning. PLoS ONE, 2013, 8, e77154.	2.5	130
141	Recommender Systems: Network Approaches. Smart Innovation, Systems and Technologies, 2013, , 65-79.	0.6	0
142	Home-Based Health Monitoring and Measurement for Personalised Healthcare. Journal of Medical Imaging and Health Informatics, 2012, 2, 35-43.	0.3	15
143	Edge detection for fast block-matching motion estimation to enhance Mean Predictive Block Matching algorithm. , 2012, , .		3
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145	The design, implementation and evaluation of a web-based student teachers' ePortfolio (STeP). , 2012, , .		1
146	Monitoring and measuring physical activity and sedentary behaviour. International Journal of Healthcare Technology and Management, 2012, 13, 283.	0.1	4
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148	Can ICT improve teachings and learning within schools?. , 2012, , .		0
149	Does e-Health technology design affect m-Health informatics acceptance? A case study. , 2012, , .		3
150	E-Health: The Potential of Linked Data and Stream Reasoning for Personalised Healthcare. , 2011, , .		1
151	Development of a Power Saving Framework for Use in Large Campus Networks. , 2011, , .		1
152	Enhanced Computation Time for Fast Block Matching Algorithm. , 2011, , .		0
153	Research 2.0: e-Learning Support Framework to Assist Research Degree Programmes. , 2011, , .		1
154	e-HTAM: A Technology Acceptance Model for electronic health. , 2011, , .		16
155	How Does ICT Affect Teachings and Learning within School Education. , 2011, , .		7
156	Hybrid Predictive, Wavelet and Arithmetic (HPWA) Image Coding System. , 2011, , .		0
157	Mean Predictive Block Matching (MPBM) for fast block-matching motion estimation. , 2011, , .		8
158	Region-Adaptive Watermarking System and Its Application. , 2011, , .		2
159	Autonomic Computing: Applications of Self-Healing Systems. , 2011, , .		2
160	MoHTAM: A Technology Acceptance Model for Mobile Health Applications. , 2011, , .		41
161	An Integrated Web-Based e-Assessment Tool. , 2011, , .		2
162	Supporting Cloud Computing Management through an Object Mapping Declarative Language. , 2010, , .		13

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163	Assurance Support for Full Adaptive Service Based Applications. , 2010, , .		4
164	Facilitating Semantic Adaptation of Web Services at Runtime Using a Meta-Data Layer. , 2010, , .		7
165	Can We Truly Learn from A Cloud Or Is It Just A Lot of Thunder?. , 2010, , .		10
166	The Prediction of Non-Stationary Physical Time Series Using the Application of Regularization Technique in Self-organised Multilayer Perceptrons Inspired by the Immune Algorithm. , 2010, , .		3
167	Time Series Prediction Using Dynamic Ridge Polynomial Neural Networks. , 2009, , .		30
168	A Declarative Language Framework for Cloud Computing Management. , 2009, , .		3
169	On the Design of Training and Testing Data for Neural Networks in Image Prediction. , 2009, , .		0
170	Creating On-Demand Service-Oriented Applications from Intentions Model. , 2009, , .		3
171	Novel hybrid classified vector quantization using discrete cosine transform for image compression. Journal of Electronic Imaging, 2009, 18, 023003.	0.9	5
172	Adaptive Neural Network Model Using the Immune System for Financial Time Series Forecasting. , 2009, , .		6
173	Biometric-Based Security System for Plaintext e-Mail Messages. , 2009, , .		3
174	Speech prediction using higher order neural networks. , 2009, , .		4
175	Using Adaptive Neural Networks in Self-Healing Systems. , 2009, , .		4
176	A Hybrid Image Compression Method and Its Application to Medical Images. , 2009, , .		2
177	The Application of the Neural Network Model Inspired by the Immune System in Financial Time Series Prediction. , 2009, , .		9
178	Copyright Protection of Digital Images Using High Order Polynomial Watermarking. , 2009, , .		0
179	Adaptive Classified Vector Quantisation of Non-orthogonal Representations of Images and its Application to Image Compression. , 2009, , .		0
180	Autonomic Computing Paradigm to Support System's Development. , 2009, , .		11

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181	Application of Pi-Sigma Neural Networks and Ridge Polynomial Neural Networks to Financial Time Series Prediction. , 2009, , 271-293.		17
182	An adaptive hybrid image compression method and its application to medical images. , 2008, , .		2
183	A framework for producing e-Learning deliverables from a single source. , 2008, , .		0
184	An Engineering Research and Development Extranet Design Approach. , 2008, , .		0
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186	Image compression using improved hybrid classified vector quantisation. Electronics Letters, 2007, 43, 385.	1.0	4
187	Autonomic Computing Application in Power System Distributions. , 2007, , .		1
188	A Hybrid Classified Vector Quantisation and Its Application to Image Compression. , 2007, , .		1
189	Hybrid Classified Vector Quantisation and Its Application to Image Compression. , 2007, , .		0
190	Dynamic Ridge Polynomial Neural Networks in Exchange Rates Time Series Forecasting. Lecture Notes in Computer Science, 2007, , 123-132.	1.3	13
191	How Good Is the Backpropogation Neural Network Using a Self-Organised Network Inspired by Immune Algorithm (SONIA) When Used for Multi-step Financial Time Series Prediction?. Lecture Notes in Computer Science, 2007, , 921-930.	1.3	3
192	Dynamic Ridge Polynomial Neural Network for Financial Time Series Prediction. , 2006, , .		11
193	Adaptive Variable-Length Quantiser for Image Compression. , 2006, , .		1
194	Polynomial Pipelined Neural Network and Its Application to Financial Time Series Prediction. Lecture Notes in Computer Science, 2006, , 597-606.	1.3	2
195	Designing an interface on the Web for an intelligent tutoring system. , 0, , .		1
196	Investigation of Green Disposal of Smartphones. Advanced Materials Research, 0, 1051, 622-626.	0.3	1
197	Assessment of heavy metal pollution in the Great Al-Mussaib irrigation channel. , 0, 168, 165-174.		73