

Ahmet Murat Ozbayoglu

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

2,732
citations

471509

17
h-index

254184

43
g-index

96
all docs

96
docs citations

96
times ranked

2377
citing authors

#	ARTICLE	IF	CITATIONS
1	Financial time series forecasting with deep learning : A systematic literature review: 2005â€“2019. Applied Soft Computing Journal, 2020, 90, 106181.	7.2	515
2	Context-Aware Computing, Learning, and Big Data in Internet of Things: A Survey. IEEE Internet of Things Journal, 2018, 5, 1-27.	8.7	299
3	Algorithmic financial trading with deep convolutional neural networks: Time series to image conversion approach. Applied Soft Computing Journal, 2018, 70, 525-538.	7.2	251
4	Deep convolutional autoencoder for radar-based classification of similar aided and unaided human activities. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1709-1723.	4.7	248
5	Deep learning for financial applications : A survey. Applied Soft Computing Journal, 2020, 93, 106384.	7.2	196
6	Review of tool condition monitoring in machining and opportunities for deep learning. International Journal of Advanced Manufacturing Technology, 2020, 109, 953-974.	3.0	176
7	A Deep Neural-Network Based Stock Trading System Based on Evolutionary Optimized Technical Analysis Parameters. Procedia Computer Science, 2017, 114, 473-480.	2.0	71
8	A deep learning based stock trading model with 2-D CNN trend detection. , 2017, , .		62
9	A real-time autonomous highway accident detection model based on big data processing and computational intelligence. , 2016, , .		56
10	Estimation of Hardgrove grindability index of Turkish coals by neural networks. International Journal of Mineral Processing, 2008, 85, 93-100.	2.6	45
11	An Artificial Neural Network-based Stock Trading System Using Technical Analysis and Big Data Framework. , 2017, , .		40
12	Deep learning of micro-Doppler features for aided and unaided gait recognition. , 2017, , .		37
13	A novel chatter detection method for milling using deep convolution neural networks. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109689.	5.0	37
14	Weather data analysis and sensor fault detection using an extended IoT framework with semantics, big data, and machine learning. , 2017, , .		36
15	Estimation of the Burned Area in Forest Fires Using Computational Intelligence Techniques. Procedia Computer Science, 2012, 12, 282-287.	2.0	33
16	Automated Vehicle Classification with Image Processing and Computational Intelligence. Procedia Computer Science, 2017, 114, 515-522.	2.0	29
17	Neural network based instant parameter prediction for wireless sensor network optimization models. Wireless Networks, 2019, 25, 3405-3418.	3.0	29
18	Estimating Flow Patterns and Frictional Pressure Losses of Two-Phase Fluids in Horizontal Wellbores Using Artificial Neural Networks. Petroleum Science and Technology, 2009, 27, 135-149.	1.5	27

#	ARTICLE	IF	CITATIONS
19	Anomaly Detection in Vehicle Traffic with Image Processing and Machine Learning. Procedia Computer Science, 2018, 140, 64-69.	2.0	26
20	Hole-Cleaning Performance of Gasified Drilling Fluids in Horizontal Well Sections. SPE Journal, 2012, 17, 912-923.	3.1	25
21	Automated Generation of Attack Graphs Using NVD. , 2018, , .		23
22	Analysis of gas-liquid behavior in eccentric horizontal annuli with image processing and artificial intelligence techniques. Journal of Petroleum Science and Engineering, 2012, 81, 31-40.	4.2	19
23	TN-RSI: Trend-normalized RSI Indicator for Stock Trading Systems with Evolutionary Computation. Procedia Computer Science, 2014, 36, 240-245.	2.0	19
24	Clustering Quality Improvement of k-means Using a Hybrid Evolutionary Model. Procedia Computer Science, 2015, 61, 38-45.	2.0	19
25	Pressure drop estimation in horizontal annuli for liquid-gas 2 phase flow: Comparison of mechanistic models and computational intelligence techniques. Computers and Fluids, 2015, 112, 108-115.	2.5	19
26	A survey on semantic Web and big data technologies for social network analysis. , 2016, , .		17
27	Support Vector Regression and Computational Fluid Dynamics Modeling of Newtonian and Non-Newtonian Fluids in Annulus With Pipe Rotation. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	16
28	A survey of partner selection methodologies for virtual enterprises and development of a goal programming-based approach. International Journal of Advanced Manufacturing Technology, 2016, 85, 1713-1734.	3.0	16
29	An ontology-based multi-agent virtual enterprise system (OMAVE): part 1: domain modeling and rule management. International Journal of Computer Integrated Manufacturing, 2017, 30, 320-343.	4.6	16
30	Predicting the pressure losses while the drillstring is buckled and rotating using artificial intelligence methods. Journal of Natural Gas Science and Engineering, 2018, 56, 72-80.	4.4	15
31	Estimation of "Very-Difficult-to-Identify" Data for Hole Cleaning, Cuttings Transport and Pressure Drop Estimation in Directional and Horizontal Drilling. , 2010, , .		14
32	Ontology-centric data modelling and decision support in smart grid applications a distribution service operator perspective. , 2014, , .		14
33	An extended IoT framework with semantics, big data, and analytics. , 2016, , .		14
34	Financial Trading Model with Stock Bar Chart Image Time Series with Deep Convolutional Neural Networks. Intelligent Automation and Soft Computing, 0, , -1-1.	2.1	14
35	Integrated energy-efficient machining of rotary impellers and multi-objective optimization. Materials and Manufacturing Processes, 2020, 35, 478-490.	4.7	12
36	A Multi-agent System Model for Partner Selection Process in Virtual Enterprise. Procedia Computer Science, 2014, 36, 367-372.	2.0	11

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37	HSV Color Histogram Based Image Retrieval with Background Elimination. , 2019, , .		11
38	Precision and energy-efficient ball-end milling of Ti6Al4V turbine blades using particle swarm optimization. International Journal of Computer Integrated Manufacturing, 2021, 34, 110-133.	4.6	11
39	An Experimental and Numerical Study of Two-phase Flow in Horizontal Eccentric Annuli. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2013, 35, 891-899.	2.3	10
40	High quality clustering of big data and solving empty-clustering problem with an evolutionary hybrid algorithm. , 2015, , .		10
41	An ontology-based multi-agent virtual enterprise system (OMAVE): part 2: partner selection. International Journal of Computer Integrated Manufacturing, 2017, 30, 1072-1092.	4.6	10
42	Computational intelligence models for PIV based particle (cuttings) direction and velocity estimation in multi-phase flows. Journal of Petroleum Science and Engineering, 2019, 172, 547-558.	4.2	10
43	Deep Learning Based Hybrid Computational Intelligence Models for Options Pricing. Computational Economics, 2022, 59, 39-58.	2.6	10
44	Flow Pattern Identification Of Gas-Liquid Flow Through Horizontal Annular Geometries. , 2010, , .		9
45	Developing a two level options trading strategy based on option pair optimization of spread strategies with evolutionary algorithms. , 2015, , .		9
46	Estimation of parameters for the free-form machining with deep neural network. , 2017, , .		9
47	Deep Multi-Layer Perceptron based Prediction of Energy Efficiency and Surface Quality for Milling in The Era of Sustainability and Big Data. Procedia Manufacturing, 2020, 51, 1166-1177.	1.9	9
48	Estimation of Multiphase Flow Properties using Computational Intelligence Models. Procedia Computer Science, 2011, 6, 493-498.	2.0	8
49	MIS-IoT: Modular Intelligent Server Based Internet of Things Framework with Big Data and Machine Learning. , 2018, , .		8
50	Intelligent Chatter Detection in Milling using Vibration Data Features and Deep Multi-Layer Perceptron. , 2020, , .		8
51	A Mechanistic Model to Characterize the Two Phase Drilling Fluid Flow through Inclined Eccentric Annular Geometry. , 2012, , .		7
52	A parametric study on coal gasification for the production of syngas. Chemical Papers, 2012, 66, .	2.2	7
53	k-Means Performance Improvements with Centroid Calculation Heuristics Both for Serial and Parallel Environments. , 2015, , .		7
54	Deep learning-based investment strategy: technical indicator clustering and residual blocks. Soft Computing, 2021, 25, 5151-5161.	3.6	7

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55	Optimization of Flow Rate and Pipe Rotation Speed Considering Effective Cuttings Transport Using Data-Driven Models. Energies, 2021, 14, 1484.	3.1	7
56	Flow Pattern and Frictional-Pressure-Loss Estimation Using Neural Networks for UBD Operations. , 2007, , .		6
57	Gas-Liquid Flow Through Horizontal Eccentric Annuli: CFD and Experiments Compared. , 2011, , .		6
58	A Two-level Cascade Evolutionary Computation based Covered Call Trading Model. Procedia Computer Science, 2013, 20, 472-477.	2.0	6
59	Design of a Customer's Type Based Algorithm for Partner Selection Problem of Virtual Enterprise. Procedia Computer Science, 2016, 95, 467-474.	2.0	6
60	Financial Forecasting using Deep Learning with an Optimized Trading Strategy. , 2019, , .		5
61	Stock Market Technical Indicator Optimization by Genetic Algorithms. , 2010, , 589-596.		5
62	Efficient computation of wireless sensor network lifetime through deep neural networks. Wireless Networks, 2021, 27, 2055-2065.	3.0	4
63	Note and Timbre Classification by Local Features of Spectrogram. Procedia Computer Science, 2012, 12, 182-187.	2.0	3
64	The Determination of Two Phase Liquid-Gas Flow Behavior Through Horizontal Eccentric Annular Geometry by Modification of Beggs & Brill and Lockhart & Martinelli Models. , 2013, , .		3
65	A New Model to Determine the Two-phase Drilling Fluid Behavior Through Horizontal Eccentric Annular Geometry, Part A: Flow Pattern Identification and Liquid Hold-up Estimation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 1663-1673.	2.3	3
66	Generic menu optimization for multi-profile customer systems. , 2015, , .		2
67	A New Model to Determine the Two-phase Drilling Fluid Behaviors through Horizontal Eccentric Annular Geometry, Part B: Frictional Pressure Losses Estimation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 1756-1765.	2.3	2
68	Channel Characterization for Aircraft Integrated Antennas via Machine Learning. , 2021, , .		2
69	Neural Based Technical Analysis in Stock Market Forecasting. , 2007, , 261-266.		2
70	A hierarchial neural network implementation for forecasting. , 0, , .		1
71	Unsupervised hierarchical fingerprint matching. , 0, , .		1
72	Hierarchical rule-based neural network for multi-object classification using invariant features. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
73	Opinion mining of microblog texts on Hadoop ecosystem. International Journal of Cloud Computing, 2016, 5, 79.	0.3	1
74	Feature diverse hierarchical classification of human gait with CW radar for assisted living. , 2017, , .		1
75	Optimized GPU Implementation of JPEG 2000 for Satellite Image Decompression. , 2018, , .		1
76	Classification of Turkish Documents Using Paragraph Vector. , 2018, , .		1
77	Load and PV Generation Forecast Based Cost Optimization for Nanogrids with PV and Battery. , 2018, , .		1
78	Unsupervised Fingerprint Classification with Directional Flow Filtering. , 2019, , .		1
79	Painter Prediction from Artworks with Transfer Learning. , 2021, , .		1
80	Neural Network and Genetic Programming in Pressure Loss Estimation in Eccentric Pipe Flow. , 0, , 163-170.		1
81	Performance Analysis of Moments in Invariant Object Classification. , 2009, , 447-454.		1
82	Why the Names? Anubanini and His Clan in the Cuthaeen Legend. Gephyra, 0, 11, 15-28.	0.0	1
83	<title>Autonomous parts assembly: comparison of ART and neocognitron</title>. , 1993, 1965, 480.		0
84	<title>Automated visual inspection system based on HAVNET architecture</title>. , 1994, , .		0
85	Using Neural Networks For Flow Pattern And Frictional Loss Estimation For Aerated Drilling Fluids. , 2007, , .		0
86	Comparison of classifiers for chatter detection. , 2013, , .		0
87	Perceptions, Expectations and Implementations of Big Data in Public Sector : Kamuda BÃ¼yÃ¼k Veri: Alglar, Beklentiler ve Uygulamalar. , 2018, , .		0
88	Satellite image band registration with Dynamic Time Warping and Discrete Wavelet Transform. , 2018, , .		0
89	Evolutionary Optimized Stock Support-Resistance Line Detection for Algorithmic Trading Systems. , 2019, , .		0
90	Menu Optimization for Multi-Profile Customer Systems on Large Scale Data. Computational Economics, 0, , 1.	2.6	0

#	ARTICLE	IF	CITATIONS
91	Estimation of Cuttings Concentration and Frictional Pressure Losses During Drilling Using Data-Driven Models. , 2021, , .		0
92	Partner Selection in Formation of Virtual Enterprises using Fuzzy Logic. , 2015, , .		0
93	A Deep Neural Network Model for Stock Investment Recommendation by Considering the Stock Market as a Time Graph. , 2021, , .		0
94	Comparison of Bayesian Estimation and Neural Network Model in Stock Market Trading. , 0, , 581-586.		0
95	Hole Cleaning Performance of Gasified Drilling Fluids in Horizontal Well Sections. , 0, , .		0