

Sotir N Sotirov

List of Publications by Year in descending order

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43
papers

316
citations

1162889

8
h-index

940416

16
g-index

51
all docs

51
docs citations

51
times ranked

181
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Relationships between Petroleum Properties and Their Impact on Crude Oil Compatibility. Energy & Fuels, 2015, 29, 7836-7854.	2.5	38
2	A Hybrid Approach for Modular Neural Network Design Using Intercriteria Analysis and Intuitionistic Fuzzy Logic. Complexity, 2018, 2018, 1-11.	0.9	37
3	Investigation of relationships between bulk properties and fraction properties of crude oils by application of the intercriteria analysis. Petroleum Science and Technology, 2016, 34, 1113-1120.	0.7	31
4	Opportunity to Improve Diesel-Fuel Cetane-Number Prediction from Easily Available Physical Properties and Application of the Least-Squares Method and Artificial Neural Networks. Energy & Fuels, 2015, 29, 1520-1533.	2.5	28
5	Application of the Intuitionistic Fuzzy InterCriteria Analysis Method with Triples to a Neural Network Preprocessing Procedure. Computational Intelligence and Neuroscience, 2017, 2017, 1-9.	1.1	23
6	Modular Neural Network Preprocessing Procedure with Intuitionistic Fuzzy InterCriteria Analysis Method. Advances in Intelligent Systems and Computing, 2016, , 175-186.	0.5	17
7	A Method of Accelerating Neural Network Learning. Neural Processing Letters, 2005, 22, 163-169.	2.0	15
8	Application of the Intuitionistic Fuzzy InterCriteria Analysis Method to a Neural Network Preprocessing Procedure. , 0, , .		14
9	Generalized Net Model of Fingerprint Recognition with Intuitionistic Fuzzy Evaluations. Advances in Intelligent Systems and Computing, 2018, , 286-294.	0.5	11
10	Intercriteria analysis over normalized data. , 2016, , .		8
11	Modeling Logic Gates and Circuits with Generalized Nets. Advances in Intelligent Systems and Computing, 2016, , 243-256.	0.5	8
12	Application of the InterCriteria Analysis Method to a Dataset of Malignant Neoplasms of the Digestive Organs for the Burgas Region for 2014â€“2018. , 2019, , .		7
13	Application of the InterCriteria Analysis Method to a Data of Malignant Melanoma Disease for the Burgas Region for 2014â€“2018. Advances in Intelligent Systems and Computing, 2021, , 166-174.	0.5	7
14	Generalized net model for parallel optimization of feed-forward neural network with variable learning rate backpropagation algorithm. , 2008, , .		5
15	Towards a model of the digital university: A Generalized Net model for producing course timetables. , 2008, , .		4
16	Index matrix interpretation of the Multilayer perceptron. , 2013, , .		4
17	Generalized net model of encrypting message in an image using self organizing map neural network. , 2016, , .		4
18	Generalized net model for parallel optimization of multilayer perceptron with momentum backpropagation algorithm. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
19	Prediction of the parameters of the thermoelectric cooling systems based on Peltier elements with neural network. , 2016, , .		3
20	Evaluation of the Different Compatibility Indices to Model and Predict Oil Colloidal Stability and Its Relation to Crude Oil Desalting. Resources, 2021, 10, 75.	1.6	3
21	A Generalized Net Model of the Neocognitron Neural Network. Lecture Notes in Computer Science, 2017, , 249-259.	1.0	3
22	Generalized net model for parallel optimization of multilayer neural network with time limit. , 2012, , .		2
23	Generalized net model of logic gates and circuits. , 2016, , .		2
24	Recognition of heat-conductive filling agents of a thermoelectric refrigeration system with Focused Time " Delay Neural Network. , 2017, , .		2
25	Generalized Nets as Tools for Modelling of the Neural Networks. , 2020, , .		2
26	Clustering of Intercriteria Analysis Data Using a Health-Related Quality of Life Data. Lecture Notes in Computer Science, 2019, , 242-249.	1.0	2
27	Generalized Net Model of Person Recognition Using ART2 Neural Network and Viola-Jones Algorithm. Advances in Intelligent Systems and Computing, 2016, , 257-265.	0.5	2
28	Game Method for Modelling with Intuitionistic Fuzzy Rules. Advances in Intelligent Systems and Computing, 2018, , 153-168.	0.5	2
29	An Application of Neural Network to Heavy Oil Distillation with Recognitions with Intuitionistic Fuzzy Estimation. Advances in Intelligent Systems and Computing, 2018, , 248-255.	0.5	2
30	Generalized Net Model for Parallel Optimization of Feed-Forward Neural Network with Variable Learning Rate Backpropagation Algorithm with Time Limit. Studies in Computational Intelligence, 2010, , 361-371.	0.7	2
31	Towards a Model of the Digital University: A Generalized Net Model for Producing Course Timetables and for Evaluating the Quality of Subjects. Studies in Computational Intelligence, 2010, , 373-381.	0.7	2
32	Intuitionistic Fuzzy Neural Networks with Interval Valued Intuitionistic Fuzzy Conditions. Studies in Computational Intelligence, 2020, , 99-106.	0.7	2
33	Modeling the eCompass based area scanning. , 2014, , .		1
34	Index matrix interpretation of one type of extended neural networks. International Journal of Reasoning-based Intelligent Systems, 2014, 6, 93.	0.1	1
35	Generalized net models of basic sequential logic circuits. , 2016, , .		1
36	Encrypting message in a sound using self organizing map neural network described by a generalized net. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
37	Generalized net model of electronic payment processes via internet. , 2008, , .		0
38	Generalized net model of the procedures of IV curve tracer. , 2012, , .		0
39	Hybrid nanocomposite coatings from metal (Mg alloy)-drug deposited onto medical implant by laser adaptive ablation deposition technique. Proceedings of SPIE, 2013, , .	0.8	0
40	One-step synthesis of hybrid inorganic-organic nanocomposite coatings by novel laser adaptive ablation deposition technique. Proceedings of SPIE, 2013, , .	0.8	0
41	Application of the InterCriteria Analysis Over Air Quality Data. Lecture Notes in Computer Science, 2017, , 226-235.	1.0	0
42	Generalized Net Model of Optimization of the Self-Organizing Map Learning Algorithm. Advances in Intelligent Systems and Computing, 2018, , 316-324.	0.5	0
43	Generalized Net Model of the Network for Automatic Turning and Setting the Lighting in the Room with Intuitionistic Fuzzy Estimations. Studies in Computational Intelligence, 2020, , 83-90.	0.7	0