Amir F Atiya

List of Publications by Year
in descending order

94	4,544	186209 28	110317 64
papers	citations	h-index	g-index

95	95	95	3645
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SpinalNet: Deep Neural Network With Gradual Input. IEEE Transactions on Artificial Intelligence, 2023, 4, 1165-1177.	3.4	36
2	Learning Spherical Word Vectors for Opinion Mining and Applying on Hotel Reviews. Advances in Intelligent Systems and Computing, 2021, , 200-211.	0.5	2
3	Multi-Step Look-Ahead Optimization Methods for Dynamic Pricing With Demand Learning. IEEE Access, 2021, 9, 88478-88497.	2.6	2
4	Handling of uncertainty in medical data using machine learning and probability theory techniques: a review of 30Âyears (1991â€“2020). Annals of Operations Research, 2021, , 1-42.	2.6	56
5	Epileptic Seizures Detection Using Deep Learning Techniques: A Review. International Journal of Environmental Research and Public Health, 2021, 18, 5780.	1.2	194
6	New Vector-Space Embeddings for Recommender Systems. Applied Sciences (Switzerland), 2021, 11, 6477.	1.3	4
7	Novel pricing strategies for revenue maximization and demand learning using an explorationâ€“exploitation framework. Soft Computing, 2021, 25, 11711-11733.	2.1	5
8	Decision boundary clustering for efficient local SVM. Applied Soft Computing Journal, 2021, 110, 107628.	4.1	14
9	Why does forecast combination work so well?. International Journal of Forecasting, 2020, 36, 197-200.	3.9	58
10	A Polarity Capturing Sphere for Word to Vector Representation. Applied Sciences (Switzerland), 2020, 10, 4386.	1.3	9
11	Applying fast matrix multiplication to neural networks. , 2020, , .		4
12	A Comprehensive Analysis of Synthetic Minority Oversampling Technique (SMOTE) for handling class imbalance. Information Sciences, 2019, 505, 32-64.	4.0	236
13	A Novel Active Learning Regression Framework for Balancing the Exploration-Exploitation Trade-Off. Entropy, 2019, 21, 651.	1.1	8
14	A Novel Distribution Analysis for SMOTE Oversampling Method in Handling Class Imbalance. Lecture Notes in Computer Science, 2019, , 236-248.	1.0	5
15	Speed up grid-search for parameter selection of support vector machines. Applied Soft Computing Journal, 2019, 80, 202-210.	4.1	127
16	A framework for an agent-based dynamic pricing for broadband wireless price rate plans. Journal of Simulation, 2019, 13, 96-110.	1.0	3
17	Multi-step ahead time series forecasting via sparse coding and dictionary based techniques. Applied Soft Computing Journal, 2018, 69, 464-474.	4.1	12
18	A Multi Linear Regression Approach for Handling Missing Values with Unknown Dependent Variable (MLRMUD). , 2018, , .		1

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19	Interactive Sketch Recognition Framework for Geometric Shapes. Lecture Notes in Computer Science, 2018, , 323-334.	1.0	2
20	Dialect Versus MSA Sentiment Analysis. Advances in Intelligent Systems and Computing, 2018, , 605-613.	0.5	6
21	Identification of unknown parameter value for precise flow control of Coupled Tank using Robust Unscented Kalman filter. International Journal of Precision Engineering and Manufacturing, 2017, 18, 31-38.	1.1	9
22	Analytical solutions to the dynamic pricing problem for time-normalized revenue. European Journal of Operational Research, 2016, 254, 632-643.	3.5	4
23	A multi-layered approach for Arabic text diacritization. , 2016, , .		12
24	A Bias and Variance Analysis for Multistep-Ahead Time Series Forecasting. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 62-76.	7.2	101
25	New Approaches for Extracting Arabic Keyphrases. , 2015, , .		3
26	A Novel Dynamic Pricing Model for the Telecommunications Industry. Advances in Intelligent Systems and Computing, 2015, , 129-140.	0.5	4
27	ASTD: Arabic Sentiment Tweets Dataset. , 2015, , .		207
28	Optimized static pricing approach for revenue maximization in telecommunications. , 2014, , .		0
29	A simulation-based overbooking approach for hotel revenue management. , 2014, , .		1
30	A novel series expansion for the multivariate normal probability integrals based on Fourier series. Mathematics of Computation, 2014, 83, 2385-2402.	1.1	7
31	Forward and Backward Forecasting Ensembles for the Estimation of Time Series Missing Data. Lecture Notes in Computer Science, 2014, , 93-104.	1.0	13
32	A mixed breadth-depth first strategy for the branch and bound tree of Euclidean k-center problems. Computational Optimization and Applications, 2013, 54, 675-703.	0.9	12
33	Dynamic pricing for hotel revenue management using price multipliers. Journal of Revenue and Pricing Management, 2013, 12, 271-285.	0.7	51
34	An evaluation of the integral of the product of the error function and the normal probability density with application to the bivariate normal integral. Mathematics of Computation, 2013, 83, 235-250.	1.1	17
35	Symbolic Function Network. , 2013, , 237-253.		2
36	A Novel Quota Sampling Algorithm for Generating Representative Random Samples given Small Sample Size. International Journal of System Dynamics Applications, 2013, 2, 97-113.	0.3	2

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37	Symbolic Function Network. , 2013, , 293-324.		0
38	A new unconstraining method for demand forecasting. , 2012, , .		2
39	A review and comparison of strategies for multi-step ahead time series forecasting based on the NN5 forecasting competition. Expert Systems With Applications, 2012, 39, 7067-7083.	4.4	440
40	Multiclass Penalized Likelihood Pattern Classification Algorithm. Lecture Notes in Computer Science, 2012, , 141-148.	1.0	1
41	An integrated framework for advanced hotel revenue management. International Journal of Contemporary Hospitality Management, 2011, 23, 84-98.	5.3	37
42	Comprehensive Review of Neural Network-Based Prediction Intervals and New Advances. IEEE Transactions on Neural Networks, 2011, 22, 1341-1356.	4.8	430
43	Combination of long term and short term forecasts, with application to tourism demand forecasting. International Journal of Forecasting, 2011, 27, 870-886.	3.9	116
44	Forecast combinations of computational intelligence and linear models for the NN5 time series forecasting competition. International Journal of Forecasting, 2011, 27, 672-688.	3.9	121
45	Lower Upper Bound Estimation Method for Construction of Neural Network-Based Prediction Intervals. IEEE Transactions on Neural Networks, 2011, 22, 337-346.	4.8	509
46	Forecasting hotel arrivals and occupancy using Monte Carlo simulation. Journal of Revenue and Pricing Management, 2011, 10, 344-366.	0.7	62
47	Solution of systems of Boolean equations via the integer domain. Information Sciences, 2010, 180, 288-300.	4.0	10
48	An Empirical Comparison of Machine Learning Models for Time Series Forecasting. Econometric Reviews, 2010, 29, 594-621.	0.5	475
49	Forecast Combination Strategies for Handling Structural Breaks for Time Series Forecasting. Lecture Notes in Computer Science, 2010, , 245-253.	1.0	2
50	A New Monte Carlo-Based Error Rate Estimator. Lecture Notes in Computer Science, 2010, , 37-47.	1.0	0
51	Pattern Classification Using a Penalized Likelihood Method. Lecture Notes in Computer Science, 2010, , 1-12.	1.0	0
52	An analytic approximation of the likelihood function for the Heston model volatility estimation problem. Quantitative Finance, 2009, 9, 289-296.	0.9	10
53	HYPERSPHERICAL PROTOTYPES FOR PATTERN CLASSIFICATION. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 1549-1575.	0.7	2
54	NOVEL ENSEMBLE TECHNIQUES FOR REGRESSION WITH MISSING DATA. New Mathematics and Natural Computation, 2009, 05, 635-652.	0.4	6

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55	Hand-Drawn Shape Recognition Using the SVMâ€™ed Kernel. Lecture Notes in Computer Science, 2009, , 275-284.	1.0	1
56	A neural network based dynamic forecasting model for Trend Impact Analysis. Technological Forecasting and Social Change, 2009, 76, 952-962.	6.2	38
57	A new Bayesian formulation for Holt's exponential smoothing. Journal of Forecasting, 2009, 28, 218-234.	1.6	30
58	Symbolic function network. Neural Networks, 2009, 22, 395-404.	3.3	4
59	A penalized likelihood based pattern classification algorithm. Pattern Recognition, 2009, 42, 2684-2694.	5.1	13
60	DS: A Disperse Swarm Algorithm. , 2009, , .		0
61	A Novel Template Reduction Approach for the K-Nearest Neighbor Method. IEEE Transactions on Neural Networks, 2009, 20, 890-896.	4.8	153
62	MLP, Gaussian Processes and Negative Correlation Learning for Time Series Prediction. Lecture Notes in Computer Science, 2009, , 428-437.	1.0	5
63	Fuzzy Gaussian Process Classification Model. Lecture Notes in Computer Science, 2009, , 369-376.	1.0	1
64	A new approach for context-independent handwritten offline diagram recognition using support vector machines. , 2008, , .		7
65	A new multidimensional penalized likelihood regression method. , 2008, , .		0
66	A new accurate approximation for the Gaussian process classification problem. , 2008, , .		0
67	Neural Network vs. Linear Models for Stock Market Sectors Forecasting. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	9
68	A Novel Approach for Image Compression using Matching Pursuit Signal Approximation and Simulated Annealing. , 2007, , .		1
69	Regression in the Presence Missing Data Using Ensemble Methods. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	5
70	Packet Loss Rate Prediction Using the Sparse Basis Prediction Model. IEEE Transactions on Neural Networks, 2007, 18, 950-954.	4.8	28
71	Round Trip Time Prediction Using the Symbolic Function Network Approach. , 2007, , .		8
72	Self-generating prototypes for pattern classification. Pattern Recognition, 2007, 40, 1498-1509.	5.1	48

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73	A Co-training Approach for Time Series Prediction with Missing Data. Lecture Notes in Computer Science, 2007, , 93-102.	1.0	6
74	Evolutionary Optimization of Neural Networks for Fire Recognition. , 2006, , .		1
75	Comparing the Performance of Learnable Evolution Model LEM and Pattern Search as a Function Optimizer. , 2006, , .		1
76	Pattern Classification Using a Set of Compact Hyperspheres. Lecture Notes in Computer Science, 2006, , 116-123.	1.0	0
77	Analysis and Insights into the Variable Selection Problem. Lecture Notes in Computer Science, 2006, , 764-775.	1.0	0
78	Estimating the Posterior Probabilities Using the K-Nearest Neighbor Rule. Neural Computation, 2005, 17, 731-740.	1.3	39
79	Sparse Basis Selection: New Results and Application to Adaptive Prediction of Video Source Traffic. IEEE Transactions on Neural Networks, 2005, 16, 1136-1146.	4.8	31
80	Efficient Estimation of First Passage Time Density Function for Jump-Diffusion Processes. SIAM Journal of Scientific Computing, 2005, 26, 1760-1775.	1.3	18
81	On the maximum drawdown of a Brownian motion. Journal of Applied Probability, 2004, 41, 147-161.	0.4	119
82	A maximum likelihood approach to volatility estimation for a Brownian motion using high, low and close price data. Quantitative Finance, 2003, 3, 376-384.	0.9	31
83	An Adaptive State Filtering Algorithm for Systems With Partially Known Dynamics. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 364-374.	0.9	10
84	Using Brownian Bridge for Fast Simulation of Jump-Diffusion Processes and Barrier Options. Journal of Derivatives, 2002, 10, 43-54.	0.1	85
85	The Early Restart Algorithm. Neural Computation, 2000, 12, 1303-1312.	1.3	16
86	Fast Algorithms for Computing Corporate Default Probabilities. Lecture Notes in Computer Science, 2000, , 239-243.	1.0	0
87	Introduction to financial forecasting. Applied Intelligence, 1996, 6, 205-213.	3.3	273
88	Empirical Model Development and Validation with Dynamic Learning in the Recurrent Multilayer Perceptron. Nuclear Technology, 1994, 105, 271-290.	0.7	6
89	Incipient Fault Detection and Identification in Process Systems Using Accelerated Neural Network Learning. Nuclear Technology, 1994, 105, 145-161.	0.7	42
90	Nonlinear Identification of Process Dynamics Using Neural Networks. Nuclear Technology, 1992, 97, 79-96.	0.7	48

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91	Direct Adaptive Control of Process Systems Using Recurrent Neural Networks. , 1992, , .		0
92	An unsupervised learning technique for artificial neural networks. Neural Networks, 1990, 3, 707-711.	3.3	15
93	The Optimal Linear Feature for the Three-Class Equal-Covariance Gaussian Case. IEEE Transactions on Systems, Man, and Cybernetics, 1987, 17, 495-502.	0.9	0
94	ArSphere: Arabic word vectors embedded in a polar sphere. International Journal of Speech Technology, 0, , 1.	1.4	0