Salim Lahmiri

List of Publications by Year
in descending order

114 papers	3,350 citations	147566 31 h-index	174990 52 g-index
115 all docs	115 docs citations	115 times ranked	2326 citing authors

#	Article	IF	Citations
1	Complexity measures of high oscillations in phonocardiogram as biomarkers to distinguish between normal heart sound and pathological murmur. Chaos, Solitons and Fractals, 2022, 154, 111610.	2.5	6
2	Deep learning systems for automatic diagnosis of infant cry signals. Chaos, Solitons and Fractals, 2022, 154, 111700.	2.5	20
3	Deep Learning Forecasting in Cryptocurrency High-Frequency Trading. Cognitive Computation, 2021, 13, 485-487.	3.6	20
4	Characterization of infant healthy and pathological cry signals in cepstrum domain based on approximate entropy and correlation dimension. Chaos, Solitons and Fractals, 2021, 143, 110639.	2.5	20
5	An adaptive sequential-filtering learning system for credit risk modeling. Soft Computing, 2021, 25, 8817-8824.	2.1	2
6	MULTI-SCALE ANALYSIS REVEALS DIFFERENT PATTERNS IN TECHNICAL INDICATORS OF BLOCKCHAIN. Fractals, 2021, 29, .	1.8	2
7	The effect of COVID-19 on long memory in returns and volatility of cryptocurrency and stock markets. Chaos, Solitons and Fractals, 2021, 151, 111221.	2.5	23
8	Multi-fluctuation nonlinear patterns of European financial markets based on adaptive filtering with application to family business, green, Islamic, common stocks, and comparison with Bitcoin, NASDAQ, and VIX. Physica A: Statistical Mechanics and Its Applications, 2020, 538, 122858.	1.2	14
9	Big data analytics using multi-fractal wavelet leaders in high-frequency Bitcoin markets. Chaos, Solitons and Fractals, 2020, 131, 109472.	2.5	23
10	Nonlinear analysis of Casablanca Stock Exchange, Dow Jones and S&P500 industrial sectors with a comparison. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122923.	1.2	12
11	Renyi entropy and mutual information measurement of market expectations and investor fear during the COVID-19 pandemic. Chaos, Solitons and Fractals, 2020, 139, 110084.	2.5	38
12	Randomness, Informational Entropy, and Volatility Interdependencies among the Major World Markets: The Role of the COVID-19 Pandemic. Entropy, 2020, 22, 833.	1.1	35
13	The impact of COVID-19 pandemic upon stability and sequential irregularity of equity and cryptocurrency markets. Chaos, Solitons and Fractals, 2020, 138, 109936.	2.5	131
14	Performance assessment of ensemble learning systems in financial data classification. Intelligent Systems in Accounting, Finance and Management, 2020, 27, 3-9.	2.8	23
15	Intelligent forecasting with machine learning trading systems in chaotic intraday Bitcoin market. Chaos, Solitons and Fractals, 2020, 133, 109641.	2.5	43
16	Hybrid deep learning convolutional neural networks and optimal nonlinear support vector machine to detect presence of hemorrhage in retina. Biomedical Signal Processing and Control, 2020, 60, 101978.	3.5	26
17	A predictive system integrating intrinsic mode functions, artificial neural networks, and genetic algorithms for forecasting S&P500 intraâ€day data. Intelligent Systems in Accounting, Finance and Management, 2020, 27, 55-65.	2.8	10
18	An Artificial Neural Networks Based Ensemble System to Forecast Bitcoin Daily Trading Volume. , 2020, , .		8

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19	Accurate Classification of Seizure and Seizure-Free Intervals of Intracranial EEG Signals From Epileptic Patients. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 791-796.	2.4	77
20	Decomposing the persistence structure of Islamic and green crypto-currencies with nonlinear stepwise filtering. Chaos, Solitons and Fractals, 2019, 127, 334-341.	2.5	18
21	Can machine learning approaches predict corporate bankruptcy? Evidence from a qualitative experimental design. Quantitative Finance, 2019, 19, 1569-1577.	0.9	36
22	A LOOK AT SHORT- AND LONG-TERM NONLINEAR DYNAMICS IN FAMILY BUSINESS STOCK RETURNS LISTED ON CASABLANCA STOCK EXCHANGE. Fractals, 2019, 27, 1950140.	1.8	3
23	Gait Nonlinear Patterns Related to Parkinsonâ€™s Disease and Age. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2545-2551.	2.4	30
24	Is anti-herding behavior spurious?. Finance Research Letters, 2019, 29, 379-383.	3.4	4
25	Detection of Parkinsonâ€™s disease based on voice patterns ranking and optimized support vector machine. Biomedical Signal Processing and Control, 2019, 49, 427-433.	3.5	84
26	Performance of machine learning methods applied to structural MRI and ADAS cognitive scores in diagnosing Alzheimerâ€™s disease. Biomedical Signal Processing and Control, 2019, 52, 414-419.	3.5	63
27	Cryptocurrency forecasting with deep learning chaotic neural networks. Chaos, Solitons and Fractals, 2019, 118, 35-40.	2.5	224
28	The high frequency multifractal properties of Bitcoin. Physica A: Statistical Mechanics and Its Applications, 2019, 520, 62-71.	1.2	49
29	Time-varying self-similarity in alternative investments. Chaos, Solitons and Fractals, 2018, 111, 1-5.	2.5	11
30	Long-range memory, distributional variation and randomness of bitcoin volatility. Chaos, Solitons and Fractals, 2018, 107, 43-48.	2.5	109
31	Randomness in denoised stock returns: The case of Moroccan family business companies. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 554-560.	0.9	7
32	A Technical Analysis Information Fusion Approach for Stock Price Analysis and Modeling. Fluctuation and Noise Letters, 2018, 17, 1850007.	1.0	25
33	Performance of machine learning methods in diagnosing Parkinsonâ€™s disease based on dysphonia measures. Biomedical Engineering Letters, 2018, 8, 29-39.	2.1	89
34	Generalized Hurst exponent estimates differentiate EEG signals of healthy and epileptic patients. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 378-385.	1.2	56
35	An accurate system to distinguish between normal and abnormal electroencephalogram records with epileptic seizure free intervals. Biomedical Signal Processing and Control, 2018, 40, 312-317.	3.5	27
36	Minute-ahead stock price forecasting based on singular spectrum analysis and support vector regression. Applied Mathematics and Computation, 2018, 320, 444-451.	1.4	64

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37	Chaos, randomness and multi-fractality in Bitcoin market. Chaos, Solitons and Fractals, 2018, 106, 28-34.	2.5	123
38	Time-dependent complexity measurement of causality in international equity markets: A spatial approach. Chaos, Solitons and Fractals, 2018, 116, 215-219.	2.5	12
39	The Informational Dynamics of Meanâ€'Variance Relationships in Fertilizer Markets: An Entropic Investigation. Entropy, 2018, 20, 677.	1.1	4
40	Nonlinear statistical properties of fMRI signals in human visual cortex during resting-state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2326-2333.	0.9	7
41	Modelling volatility persistence under stochasticity assumptions: evidence from common and alternative investments. Chaos, Solitons and Fractals, 2018, 114, 158-163.	2.5	6
42	Causal influences between spontaneous fluctuations in resting state fMRI of central and peripheral eccentricity representations in the human visual cortex. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 756-762.	1.2	0
43	Economic Decision Making, Emotion, and Prefrontal Cortex. , 2018, , 466-476.		0
44	Emerging Markets Reward Risk. , 2018, , 421-433.		0
45	Comparing Variational and Empirical Mode Decomposition in Forecasting Day-Ahead Energy Prices. IEEE Systems Journal, 2017, 11, 1907-1910.	2.9	109
46	On fractality and chaos in Moroccan family business stock returns and volatility. Physica A: Statistical Mechanics and Its Applications, 2017, 473, 29-39.	1.2	33
47	MULTIFRACTALS IN WESTERN MAJOR STOCK MARKETS HISTORICAL VOLATILITIES IN TIMES OF FINANCIAL CRISIS. Fractals, 2017, 25, 1750010.	1.8	17
48	A comparison of four PDE-spatial denoising systems for molecular images. , 2017, , .		1
49	Variational mode decomposition based approach for accurate classification of color fundus images with hemorrhages. Optics and Laser Technology, 2017, 96, 243-248.	2.2	38
50	Multifractal analysis of Moroccan family business stock returns. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 183-191.	1.2	36
51	Highâ€frequencyâ€based features for low and high retina haemorrhage classification. Healthcare Technology Letters, 2017, 4, 20-24.	1.9	16
52	MULTIFRACTAL IN VOLATILITY OF FAMILY BUSINESS STOCKS LISTED ON CASABLANCA STOCK EXCHANGE. Fractals, 2017, 25, 1750014.	1.8	21
53	A twoâ€step system for direct bank telemarketing outcome classification. Intelligent Systems in Accounting, Finance and Management, 2017, 24, 49-55.	2.8	14
54	Modeling and predicting historical volatility in exchange rate markets. Physica A: Statistical Mechanics and Its Applications, 2017, 471, 387-395.	1.2	40

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55	Cointegration and causal linkages in fertilizer markets across different regimes. Physica A: Statistical Mechanics and Its Applications, 2017, 471, 181-189.	1.2	17
56	Parkinsonâ€™s disease detection based on dysphonia measurements. Physica A: Statistical Mechanics and Its Applications, 2017, 471, 98-105.	1.2	10
57	Disturbances and complexity in volatility time series. Chaos, Solitons and Fractals, 2017, 105, 38-42.	2.5	25
58	Nonlinear dynamics of equity, currency and commodity markets in the aftermath of the global financial crisis. Chaos, Solitons and Fractals, 2017, 103, 342-346.	2.5	38
59	Clustering of short and long-term co-movements in international financial and commodity markets in wavelet domain. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 947-955.	1.2	22
60	Glioma detection based on multi-fractal features of segmented brain MRI by particle swarm optimization techniques. Biomedical Signal Processing and Control, 2017, 31, 148-155.	3.5	114
61	Asymmetric and persistent responses in price volatility of fertilizers through stable and unstable periods. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 405-414.	1.2	20
62	A study on chaos in crude oil markets before and after 2008 international financial crisis. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 389-395.	1.2	39
63	Investigating existence of chaos in short and long term dynamics of Moroccan exchange rates. Physica A: Statistical Mechanics and Its Applications, 2017, 465, 655-661.	1.2	23
64	An accurate automatic system for distinguishing neuropathy and healthy electromyography signals. , 2017, , .		5
65	Image characterization by fractal descriptors in variational mode decomposition domain: Application to brain magnetic resonance. Physica A: Statistical Mechanics and Its Applications, 2016, 456, 235-243.	1.2	44
66	Clustering of Casablanca stock market based on hurst exponent estimates. Physica A: Statistical Mechanics and Its Applications, 2016, 456, 310-318.	1.2	34
67	INVESTIGATING LONG-RANGE DEPENDENCE IN AMERICAN TREASURY BILLS VARIATIONS AND VOLATILITIES DURING STABLE AND UNSTABLE PERIODS. Fractals, 2016, 24, 1650025.	1.8	12
68	A variational mode decompoisition approach for analysis and forecasting of economic and financial time series. Expert Systems With Applications, 2016, 55, 268-273.	4.4	159
69	Combined partial differential equation filtering and particle swarm optimization for noisy biomedical image segmentation. , 2016, , .		6
70	Features selection, data mining and finacial risk classification: a comparative study. Intelligent Systems in Accounting, Finance and Management, 2016, 23, 265-275.	2.8	21
71	Intraday stock price forecasting based on variational mode decomposition. Journal of Computational Science, 2016, 12, 23-27.	1.5	75
72	Interest rate next-day variation prediction based on hybrid feedforward neural network, particle swarm optimization, and multiresolution techniques. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 388-396.	1.2	28

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73	On Simulation Performance of Feedforward and NARX Networks Under Different Numerical Training Algorithms. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 171-183.	0.5	4
74	Prediction of International Stock Markets Based on Hybrid Intelligent Systems. Advances in Knowledge Acquisition, Transfer and Management Book Series, 2016, , 110-124.	0.1	2
75	A Sequential Probabilistic System for Bankruptcy Data Classification. Advances in Logistics, Operations, and Management Science Book Series, 2016, , 138-147.	0.3	4
76	Fractals in Neuroimaging. Springer Series in Computational Neuroscience, 2016, , 295-309.	0.3	1
77	Economic Decision Making, Emotion, and Prefrontal Cortex. Advances in Psychology, Mental Health, and Behavioral Studies, 2016, , 122-131.	0.1	3
78	On The Risk-Return Relationship in European and MENA Major Stock Markets During the 2008 Financial Crisis. Advances in Finance, Accounting, and Economics, 2016, , 252-264.	0.3	0
79	Long memory in international financial markets trends and short movements during 2008 financial crisis based on variational mode decomposition and detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2015, 437, 130-138.	1.2	90
80	Pathology grading in retina digital images using student-adjusted empirical mode decomposition and power law statistics. , 2015, , .		2
81	A weighted bio-signal denoising approach using empirical mode decomposition. Biomedical Engineering Letters, 2015, 5, 131-139.	2.1	38
82	Computational Analyses of Arteriovenous Malformations in Neuroimaging. Journal of Neuroimaging, 2015, 25, 354-360.	1.0	17
83	Intelligent Ensemble Forecasting System of Stock Market Fluctuations Based on Symetric and Asymetric Wavelet Functions. Fluctuation and Noise Letters, 2015, 14, 1550033.	1.0	21
84	Multi-Scaling Analysis of the S&P500 under Different Regimes in Wavelet Domain. International Journal of Strategic Decision Sciences, 2014, 5, 43-55.	0.0	10
85	Entropy-Based Technical Analysis Indicators Selection for International Stock Markets Fluctuations Prediction Using Support Vector Machines. Fluctuation and Noise Letters, 2014, 13, 1450013.	1.0	16
86	Biomedical image denoising using variational mode decomposition. , 2014, , .		47
87	Detrended fluctuation analysis of brain hemisphere magnetic resonnance images to detect cerebral arteriovenous malformations. , 2014, , .		12
88	Automated pathologies detection in retina digital images based on complex continuous wavelet transform phase angles. Healthcare Technology Letters, 2014, 1, 104-108.	1.9	11
89	Comparative study of ECG signal denoising by wavelet thresholding in empirical and variational mode decomposition domains. Healthcare Technology Letters, 2014, 1, 104-109.	1.9	124
90	Fractal-based arteriovenous malformations detection in brain magnetic resonance images. , 2014, , .		6

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91	Automated detection of circinate exudates in retina digital images using empirical mode decomposition and the entropy and uniformity of the intrinsic mode functions. Biomedizinische Technik, 2014, 59, 357-66.	0.9	19
92	Wavelet low- and high-frequency components as features for predicting stock prices with backpropagation neural networks. Journal of King Saud University - Computer and Information Sciences, 2014, 26, 218-227.	2.7	52
93	New approach for automatic classification of Alzheimer's disease, mild cognitive impairment and healthy brain magnetic resonance images. Healthcare Technology Letters, 2014, 1, 32-36.	1.9	44
94	Practical Machine Learning in Financial Market Trend Prediction. Advances in Business Information Systems and Analytics Book Series, 2014, , 206-217.	0.3	3
95	Exploring Information Categories and Artificial Neural Networks Numerical Algorithms in S&P500 Trend Prediction. International Journal of Strategic Decision Sciences, 2014, 5, 76-94.	0.0	16
96	An application of the empirical mode decomposition to brain magnetic resonance images classification. , 2013, , .		4
97	Automatic detection of Alzheimer disease in brain magnetic resonance images using fractal features. , 2013, , .		9
98	Hybrid Discrete Wavelet Transform and Gabor Filter Banks Processing for Features Extraction from Biomedical Images. Journal of Medical Engineering, 2013, 2013, 1-13.	1.1	55
99	Forecasting Direction of the S&P500 Movement Using Wavelet Transform and Support Vector Machines. International Journal of Strategic Decision Sciences, 2013, 4, 79-89.	0.0	19
100	Alzheimerâ€™s Disease Detection in Brain Magnetic Resonance Images Using Multiscale Fractal Analysis. ISRN Radiology, 2013, 2013, 1-7.	1.2	26
101	Estimating the risk-return tradeoff in MENA Stock Markets. Decision Science Letters, 2013, 2, 119-124.	0.5	5
102	A Supervised Classification System of Financial Data Based on Wavelet Packet and Neural Networks. International Journal of Strategic Decision Sciences, 2013, 4, 72-84.	0.0	13
103	An EMD-SVM screening system for retina digital images: The effect of kernels and parameters. , 2012, , .		1
104	Statistical features selection from intrinsic mode functions for pathologies detection in retina digital images. , 2012, , .		4
105	Automatic brain MR images diagnosis based on edge fractal dimension and spectral energy signature. , 2012, 2012, 6243-6.		10
106	An empirical mode decomposition approach for automatic diagnosis of retina digital images. , 2012, , .		1
107	An EGARCH-BPNN system for estimating and predicting stock market volatility in Morocco and Saudi Arabia: The effect of trading volume. Management Science Letters, 2012, 2, 1317-1324.	0.8	12
108	A clustering approach to examine the dynamics of the NASDAQ topology in times of crisis. Management Science Letters, 2012, 2, 2113-2118.	0.8	6

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109	Hybrid cosine and Radon transform-based processing for digital mammogram feature extraction and classification with SVM. , 2011, 2011, 5104-7.		6
110	Hybrid discrete wavelet transform and Gabor filter banks processing for mammogram features extraction. , 2011, , .		10
111	DWT and RT-based approach for feature extraction and classification of mammograms with SVM. , 2011, , .		7
112	Classification of brain MRI using the LH and HL wavelet transform sub-bands. , 2011, , .		17
113	Information Technology Outsourcing Risk Factors and Provider Selection. Advances in Information Security, Privacy, and Ethics Book Series, 0, , 214-228.	0.4	1
114	Prediction of International Stock Markets Based on Hybrid Intelligent Systems. , 0, , 1651-1667.		0