

Ming Li

List of Publications by Year in descending order

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152
papers

2,554
citations

201674

27
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243625

44
g-index

154
all docs

154
docs citations

154
times ranked

1355
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractal Time Series—A Tutorial Review. Mathematical Problems in Engineering, 2010, 2010, 1-26.	1.1	169
2	Multi-Scale Permutation Entropy Based on Improved LMD and HMM for Rolling Bearing Diagnosis. Entropy, 2017, 19, 176.	2.2	137
3	Langevin equation with two fractional orders. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6309-6320.	2.1	120
4	Modeling network traffic using generalized Cauchy process. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2584-2594.	2.6	77
5	Change trend of averaged Hurst parameter of traffic under DDOS flood attacks. Computers and Security, 2006, 25, 213-220.	6.0	72
6	Representation of a Stochastic Traffic Bound. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1368-1372.	5.6	70
7	Local stress—strain field intensity approach to fatigue life prediction under random cyclic loading. International Journal of Fatigue, 2001, 23, 903-910.	5.7	66
8	An approach to reliably identifying signs of DDOS flood attacks based on LRD traffic pattern recognition. Computers and Security, 2004, 23, 549-558.	6.0	59
9	Exact Solution of Impulse Response to a Class of Fractional Oscillators and Its Stability. Mathematical Problems in Engineering, 2011, 2011, 1-9.	1.1	58
10	Improved Generalized Belief Propagation for Vision Processing. Mathematical Problems in Engineering, 2011, 2011, 1-12.	1.1	49
11	Viewing Sea Level by a One-Dimensional Random Function with Long Memory. Mathematical Problems in Engineering, 2011, 2011, 1-13.	1.1	47
12	Modeling autocorrelation functions of long-range dependent teletraffic series based on optimal approximation in Hilbert space—A further study. Applied Mathematical Modelling, 2007, 31, 625-631.	4.2	46
13	Multi-fractional generalized Cauchy process and its application to teletraffic. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 123982.	2.6	45
14	Visiting Power Laws in Cyber-Physical Networking Systems. Mathematical Problems in Engineering, 2012, 2012, 1-13.	1.1	44
15	Data Normalization to Accelerate Training for Linear Neural Net to Predict Tropical Cyclone Tracks. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	44
16	Three Classes of Fractional Oscillators. Symmetry, 2018, 10, 40.	2.2	44
17	Chesapeake Bay acidification buffered by spatially decoupled carbonate mineral cycling. Nature Geoscience, 2020, 13, 441-447.	12.9	44
18	A generalized Cauchy process and its application to relaxation phenomena. Journal of Physics A, 2006, 39, 2935-2951.	1.6	42

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19	A RIGOROUS DERIVATION OF POWER SPECTRUM OF FRACTIONAL GAUSSIAN NOISE. Fluctuation and Noise Letters, 2006, 06, C33-C36.	1.5	35
20	On $\int_0^t \int_0^s f(s) ds dB(s)$ Noise. Mathematical Problems in Engineering, 2012, 2012, 1-23.	1.1	35
21	Modeling autocorrelation functions of self-similar teletraffic in communication networks based on optimal approximation in Hilbert space. Applied Mathematical Modelling, 2003, 27, 155-168.	4.2	33
22	Teleconnection between phytoplankton dynamics in north temperate lakes and global climatic oscillation by time-frequency analysis. Water Research, 2019, 154, 267-276.	11.3	33
23	On the Predictability of Long-Range Dependent Series. Mathematical Problems in Engineering, 2010, 2010, 1-9.	1.1	32
24	Generation of teletraffic of generalized Cauchy type. Physica Scripta, 2010, 81, 025007.	2.5	31
25	Product technical life prediction based on multi-modes and fractional Lévy stable motion. Mechanical Systems and Signal Processing, 2021, 161, 107974.	8.0	31
26	A correlation-based computational model for synthesizing long-range dependent data. Journal of the Franklin Institute, 2003, 340, 503-514.	3.4	30
27	Quantitatively investigating the locally weak stationarity of modified multifractional Gaussian noise. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 6268-6278.	2.6	30
28	Fractional Brownian motion: Difference iterative forecasting models. Chaos, Solitons and Fractals, 2019, 123, 347-355.	5.1	29
29	Fractional Lévy stable motion: Finite difference iterative forecasting model. Chaos, Solitons and Fractals, 2020, 133, 109632.	5.1	28
30	Legendre Wavelets Method for Solving Fractional Population Growth Model in a Closed System. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	27
31	Incremental Nonnegative Matrix Factorization for Face Recognition. Mathematical Problems in Engineering, 2008, 2008, 1-17.	1.1	26
32	Power spectrum of generalized Cauchy process. Telecommunication Systems, 2010, 43, 219-222.	2.5	26
33	Generalized Cauchy model of sea level fluctuations with long-range dependence. Physica A: Statistical Mechanics and Its Applications, 2017, 484, 309-335.	2.6	24
34	Generalized fractional Gaussian noise and its application to traffic modeling. Physica A: Statistical Mechanics and Its Applications, 2021, 579, 126138.	2.6	24
35	LOCALLY SELF-SIMILAR FRACTIONAL OSCILLATOR PROCESSES. Fluctuation and Noise Letters, 2007, 07, L169-L179.	1.5	23
36	Correlation matching method for the weak stationarity test of α -LRD traffic. Telecommunication Systems, 2010, 43, 181-195.	2.5	23

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37	Solving Linear Coupled Fractional Differential Equations by Direct Operational Method and Some Applications. Mathematical Problems in Engineering, 2012, 2012, 1-28.	1.1	23
38	Chebyshev Wavelets Method for Solution of Nonlinear Fractional Integrodifferential Equations in a Large Interval. Advances in Mathematical Physics, 2013, 2013, 1-12.	0.8	23
39	Modified multifractional Gaussian noise and its application. Physica Scripta, 2021, 96, 125002.	2.5	23
40	A new trend analysis for seasonal time series with consideration of data dependence. Journal of Hydrology, 2011, 396, 104-112.	5.4	22
41	On bandlimitedness and lag-limitedness of fractional Gaussian noise. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1955-1961.	2.6	22
42	mBm-Based Scalings of Traffic Propagated in Internet. Mathematical Problems in Engineering, 2011, 2011, 1-21.	1.1	20
43	Approximating Ideal Filters by Systems of Fractional Order. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-6.	1.3	20
44	Solving Abel's Type Integral Equation with Mikusinski's Operator of Fractional Order. Advances in Mathematical Physics, 2013, 2013, 1-4.	0.8	20
45	Understanding Anthropogenic Impacts on pH and Aragonite Saturation State in Chesapeake Bay: Insights From a 30-Year Model Study. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005620.	3.0	20
46	Correlation form of timestamp increment sequences of self-similar traffic on Ethernet. Electronics Letters, 2000, 36, 1668.	1.0	19
47	Decision Analysis of Statistically Detecting Distributed Denial-of-Service Flooding Attacks. International Journal of Information Technology and Decision Making, 2003, 02, 397-405.	3.9	19
48	The Power of the Queue. SIAM Journal on Computing, 1992, 21, 697-712.	1.0	18
49	Using the periodogram to estimate period in nonparametric regression. Biometrika, 2006, 93, 411-424.	2.4	17
50	Noise Estimation for Single-Slice Sinogram of Low-Dose X-Ray Computed Tomography Using Homogenous Patch. Mathematical Problems in Engineering, 2012, 2012, 1-16.	1.1	17
51	A Method for Requiring Block Size for Spectrum Measurement of Ocean Surface Waves. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2207-2215.	4.7	16
52	Spatiotemporal BME characterization and mapping of sea surface chlorophyll in Chesapeake Bay (USA) using auxiliary sea surface temperature data. Science of the Total Environment, 2021, 794, 148670.	8.0	16
53	An iteration method to adjusting random loading for a laboratory fatigue test. International Journal of Fatigue, 2005, 27, 783-789.	5.7	15
54	Record length requirement of long-range dependent teletraffic. Physica A: Statistical Mechanics and Its Applications, 2017, 472, 164-187.	2.6	15

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55	Hölder Scales of Sea Level. Mathematical Problems in Engineering, 2012, 2012, 1-22.	1.1	14
56	Characteristic Roots of a Class of Fractional Oscillators. Advances in High Energy Physics, 2013, 2013, 1-7.	1.1	14
57	Towards Describing Multi-fractality of Traffic Using Local Hurst Function. Lecture Notes in Computer Science, 2007, , 1012-1020.	1.3	14
58	MODELING NETWORK TRAFFIC USING CAUCHY CORRELATION MODEL WITH LONG-RANGE DEPENDENCE. Modern Physics Letters B, 2005, 19, 829-840.	1.9	13
59	Nonlinear Time-Varying Spectral Analysis: HHT and MODWPT. Mathematical Problems in Engineering, 2010, 2010, 1-14.	1.1	13
60	Variance Bound of ACF Estimation of One Block of fGn with LRD. Mathematical Problems in Engineering, 2010, 2010, 1-14.	1.1	13
61	Prediction of Bearing Fault Using Fractional Brownian Motion and Minimum Entropy Deconvolution. Entropy, 2016, 18, 418.	2.2	13
62	Theory of Fractional Engineering Vibrations. , 2021, , .		13
63	Simulation Study of Flood Attacking of DDOS. , 2008, , .		12
64	A Class of Negatively Fractal Dimensional Gaussian Random Functions. Mathematical Problems in Engineering, 2011, 2011, 1-18.	1.1	12
65	Delay Bound: Fractal Traffic Passes through Network Servers. Mathematical Problems in Engineering, 2013, 2013, 1-15.	1.1	12
66	Detection of Variations of Local Irregularity of Traffic under DDOS Flood Attack. Mathematical Problems in Engineering, 2008, 2008, 1-11.	1.1	11
67	An Adaptive Approach for Defending against DDoS Attacks. Mathematical Problems in Engineering, 2010, 2010, 1-15.	1.1	11
68	A method for the acquisition of ontology-based user profiles. Advances in Engineering Software, 2013, 65, 132-137.	3.8	11
69	Control strategy for performing predictions for a semi-active compensation system. Ocean Engineering, 2021, 239, 109816.	4.3	11
70	An optimal controller of an irregular wave maker. Applied Mathematical Modelling, 2005, 29, 55-63.	4.2	10
71	A New Approach for Detecting DDoS Attacks Based on Wavelet Analysis. , 2009, , .		10
72	Italian Residential Buildings: Economic Assessments for Biomass Boilers Plants. Mathematical Problems in Engineering, 2013, 2013, 1-10.	1.1	10

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73	Power-Type Functions of Prediction Error of Sea Level Time Series. Entropy, 2015, 17, 4809-4837.	2.2	10
74	Improving autocorrelation regression for the Hurst parameter estimation of long-range dependent time series based on golden section search. Physica A: Statistical Mechanics and Its Applications, 2016, 445, 189-199.	2.6	10
75	Improving Spatial Adaptivity of Nonlocal Means in Low-Dosed CT Imaging Using Pointwise Fractal Dimension. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-8.	1.3	9
76	Sparse Reconstruction Based on the ADMM and Lasso-LSQR for Bearings Vibration Signals. IEEE Access, 2017, 5, 20083-20088.	4.2	9
77	Revisiting fractional Gaussian noise. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 56-62.	2.6	9
78	Foreword to the special issue on traffic modeling, its computations and applications. Telecommunication Systems, 2010, 43, 145-146.	2.5	8
79	Long-range dependence and self-similarity of teletraffic with different protocols at the large time scale of day in the duration of 12 years: Autocorrelation modeling. Physica Scripta, 2020, 95, 065222.	2.5	8
80	Decision analysis of network-based intrusion detection systems for denial-of-service attacks. , 0, , .		7
81	Power Spectrum of Generalized Fractional Gaussian Noise. Advances in Mathematical Physics, 2013, 2013, 1-3.	0.8	7
82	Integral Representation of Fractional Derivative of Delta Function. Fractal and Fractional, 2020, 4, 47.	3.3	7
83	SIMULATION OF LONG-RANGE DEPENDENT TRAFFIC AND A SIMULATOR OF TCP ARRIVAL TRAFFIC. Journal of Interconnection Networks, 2001, 02, 305-315.	1.0	6
84	Short Range Phenomena: Modeling, Computational Aspects and Applications. Mathematical Problems in Engineering, 2008, 2008, 1-2.	1.1	5
85	Bound Maxima as a Traffic Feature under DDOS Flood Attacks. Mathematical Problems in Engineering, 2012, 2012, 1-20.	1.1	5
86	Cutting Affine Moment Invariants. Mathematical Problems in Engineering, 2012, 2012, 1-12.	1.1	5
87	Molecular Dynamics Simulation of Barnase: Contribution of Noncovalent Intramolecular Interaction to Thermostability. Mathematical Problems in Engineering, 2013, 2013, 1-12.	1.1	5
88	Estimation of Large Scalings in Images Based on Multilayer Pseudopolar Fractional Fourier Transform. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	5
89	Automated Flare Prediction Using Extreme Learning Machine. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	5
90	Golden Ratio Phenomenon of Random Data Obeying von Karman Spectrum. Mathematical Problems in Engineering, 2013, 2013, 1-6.	1.1	5

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91	Fractal teletraffic delay bounds in computer networks. Physica A: Statistical Mechanics and Its Applications, 2020, 557, 124903.	2.6	5
92	Comparison of Two Different Analytical Forms of Response for Fractional Oscillation Equation. Fractal and Fractional, 2021, 5, 188.	3.3	5
93	The Mixed Boundary Value Problems and Chebyshev Collocation Method for Caputo-Type Fractional Ordinary Differential Equations. Fractal and Fractional, 2022, 6, 148.	3.3	5
94	Study on Elastic Helical TDR Sensing Cable for Distributed Deformation Detection. Sensors, 2012, 12, 9586-9602.	3.8	4
95	Heavy-Tailed Prediction Error: A Difficulty in Predicting Biomedical Signals of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1" \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Noise Type. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-5.	1.3	4
96	Asymptotic Identity in Min-Plus Algebra: A Report on CPNS. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-11.	1.3	4
97	On the Long-Range Dependence of Fractional Brownian Motion. Mathematical Problems in Engineering, 2013, 2013, 1-5.	1.1	4
98	Essay on Kolmogorov Law of Minus 5 over 3 Viewed with Golden Ratio. Advances in High Energy Physics, 2013, 2013, 1-3.	1.1	4
99	Improved Hydrodynamic Analysis of 3-D Hydrofoil and Marine Propeller Using the Potential Panel Method Based on B-Spline Scheme. Symmetry, 2019, 11, 196.	2.2	4
100	The Autocorrelation Function Obtained from the Pierson-Moskowitz Spectrum. , 2020, , .		4
101	A whole correlation structure of asymptotically self-similar traffic in communication networks. , 0, , .		3
102	Nonlinear Time Series: Computations and Applications. Mathematical Problems in Engineering, 2010, 2010, 1-5.	1.1	3
103	Long Memory from Sauerbrey Equation: A Case in Coated Quartz Crystal Microbalance in terms of Ammonia. Mathematical Problems in Engineering, 2011, 2011, 1-9.	1.1	3
104	Abstract Description of Internet Traffic of Generalized Cauchy Type. Mathematical Problems in Engineering, 2012, 2012, 1-18.	1.1	3
105	A Model to Partly but Reliably Distinguish DDOS Flood Traffic from Aggregated One. Mathematical Problems in Engineering, 2012, 2012, 1-12.	1.1	3
106	Dual-EKF-Based Real-Time Celestial Navigation for Lunar Rover. Mathematical Problems in Engineering, 2012, 2012, 1-16.	1.1	3
107	Minimum-Energy Multiwavelet Frames with Arbitrary Integer Dilation Factor. Mathematical Problems in Engineering, 2012, 2012, 1-37.	1.1	3
108	Normality of Ethernet Traffic at Large Time Scales. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	3

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109	Extraction of Affine Invariant Features Using Fractal. Advances in Mathematical Physics, 2013, 2013, 1-8.	0.8	3
110	An Effective Error Correction Scheme for Arithmetic Coding. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	3
111	Approximate Solution of Fractional Differential Equation by Quadratic Splines. Fractal and Fractional, 2022, 6, 369.	3.3	3
112	Experimental research for processing of Choi-Williams distribution and Bessel distribution. , 0, , .		2
113	Stationarity Testing of Accumulated Ethernet Traffic. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	2
114	Essay on Fractional Riemann-Liouville Integral Operator versus Mikusinski's. Mathematical Problems in Engineering, 2013, 2013, 1-3.	1.1	2
115	Cryptanalysis and Improvement of the Robust and Blind Watermarking Scheme for Dual Color Image. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	2
116	Power Laws in Fractionally Electronic Elements. Fractal and Fractional, 2018, 2, 24.	3.3	2
117	A Real-Time and Reliable Approach to Detecting Traffic Variations at Abnormally High and Low Rates. Lecture Notes in Computer Science, 2006, , 541-550.	1.3	2
118	Generating Traffic Time Series Based on Generalized Cauchy Process. Lecture Notes in Computer Science, 2007, , 374-381.	1.3	2
119	Probability Principle of a Reliable Approach to Detect Signs of DDOS Flood Attacks. Lecture Notes in Computer Science, 2004, , 596-599.	1.3	2
120	A method for modeling autocorrelation functions of asymptotically LRD traffic and its verification. , 0, , .		1
121	Optimal Prefix Codes And Huffman Codes. International Journal of Computer Mathematics, 2003, 80, 727-742.	1.8	1
122	Statistical Error Analysis on Recording LRD Traffic Time Series. Lecture Notes in Computer Science, 2004, , 403-406.	1.3	1
123	A species compete-die out (SCD) algorithm model for improving the performances of evolutionary computation in greenhouse. , 2005, , .		1
124	Representing Smoothed Spectrum Estimate with the Cauchy Integral. Mathematical Problems in Engineering, 2012, 2012, 1-5.	1.1	1
125	Cauchy-Matern Model of Sea Surface Wind Speed at the Lake Worth, Florida. Mathematical Problems in Engineering, 2012, 2012, 1-10.	1.1	1
126	Propagation Phenomena and Transitions in Complex Systems: Efficient Mathematical Models. Mathematical Problems in Engineering, 2012, 2012, 1-3.	1.1	1

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127	Wild Fluctuations of Random Functions with the Pareto Distribution. Mathematical Problems in Engineering, 2013, 2013, 1-3.	1.1	1
128	Smoothing the Sample Autocorrelation of Long-Range-Dependent Traffic. Mathematical Problems in Engineering, 2013, 2013, 1-10.	1.1	1
129	Scaling, Self-Similarity, and Systems of Fractional Order. Abstract and Applied Analysis, 2014, 2014, 1-2.	0.7	1
130	Dependence of a class of non-integer power functions. Journal of King Saud University - Science, 2016, 28, 355-358.	3.5	1
131	Moderate Deviations for Stochastic Fractional Heat Equation Driven by Fractional Noise. Complexity, 2018, 2018, 1-17.	1.6	1
132	Some Properties of Bifractional Bessel Processes Driven by Bifractional Brownian Motion. Mathematical Problems in Engineering, 2020, 2020, 1-13.	1.1	1
133	A Statistical Model for Detecting Abnormality in Static-Priority Scheduling Networks with Differentiated Services. Lecture Notes in Computer Science, 2005, , 267-272.	1.3	1
134	Derivations of Error Bound on Recording Traffic Time Series with Long-Range Dependence. Lecture Notes in Computer Science, 2005, , 360-369.	1.3	1
135	A chaotic masking system of network traffic. , 0, , .		0
136	Four decomposition patterns for one image based on wavelet basis. , 0, , .		0
137	An Empirical Autocorrelation Form for Modeling LRD Traffic Series. Lecture Notes in Computer Science, 2004, , 399-402.	1.3	0
138	A Method to Obtain Signatures from Honeypots Data. Lecture Notes in Computer Science, 2004, , 435-442.	1.3	0
139	Optimal synchronous coding. International Journal of Computer Mathematics, 2004, 81, 931-941.	1.8	0
140	Design of elastic helical Time Domain Reflectometry cable for distributed tensile deformation monitoring. , 2011, , .		0
141	Ground Surface Deformation Sensor Based on Cable Impedance. Applied Mechanics and Materials, 0, 241-244, 998-1003.	0.2	0
142	Propagation Phenomena and Transitions in Complex Systems 2012. Mathematical Problems in Engineering, 2012, 2012, 1-3.	1.1	0
143	Nonlinear Time Series: Computations and Applications 2012. Mathematical Problems in Engineering, 2012, 2012, 1-4.	1.1	0
144	Convergence of Sample Autocorrelation of Long-Range Dependent Traffic. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	0

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145	Dynamical Processes and Systems of Fractional Order. Advances in Mathematical Physics, 2014, 2014, 1-2.	0.8	0
146	Nonlinear Time Series 2013. Mathematical Problems in Engineering, 2014, 2014, 1-2.	1.1	0
147	Propagation Phenomena and Transitions in Complex Systems 2013. Mathematical Problems in Engineering, 2014, 2014, 1-2.	1.1	0
148	Stochastic Fractional Heat Equations Driven by Fractional Noises. Mathematical Problems in Engineering, 2015, 2015, 1-16.	1.1	0
149	On von Kármán spectrum from a view of fractal. Waves Wavelets and Fractals, 2015, 1, .	0.4	0
150	Representing Error of Wind Surface Waves Prediction. , 2018, , .		0
151	Fat Tail in the Phytoplankton Movement Patterns and Swimming Behavior: New Insights into the Prey-Predator Interactions. Fractal and Fractional, 2021, 5, 49.	3.3	0
152	A Novel Description of Multifractal Phenomenon of Network Traffic Based on Generalized Cauchy Process. Lecture Notes in Computer Science, 2007, , 1-9.	1.3	0