

Grzegorz Sikora

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6200457/publications.pdf>

Version: 2024-02-01

27
papers

472
citations

759233

12
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

367
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Statistical test for anomalous diffusion based on empirical anomaly measure for Gaussian processes. Computational Statistics and Data Analysis, 2022, 168, 107401. | 1.2 | 3 |
| 2 | Discriminating Gaussian processes via quadratic form statistics. Chaos, 2021, 31, 063101. | 2.5 | 6 |
| 3 | Time-averaged mean squared displacement ratio test for Gaussian processes with unknown diffusion coefficient. Chaos, 2021, 31, 073120. | 2.5 | 1 |
| 4 | Empirical anomaly measure for finite-variance processes. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 024001. | 2.1 | 5 |
| 5 | Fractional Dynamics Identification via Intelligent Unpacking of the Sample Autocovariance Function by Neural Networks. Entropy, 2020, 22, 1322. | 2.2 | 5 |
| 6 | Measurement instrumentation and selected signal processing techniques for anomalous diffusion analysis. Measurement: Sensors, 2020, 7-9, 100017. | 1.7 | 2 |
| 7 | Probabilistic properties of detrended fluctuation analysis for Gaussian processes. Physical Review E, 2020, 101, 032114. | 2.1 | 8 |
| 8 | Spatio-temporal Dependence Measures for Bivariate AR(1) Models with α -Stable Noise. Journal of Time Series Analysis, 2020, 41, 454-475. | 1.2 | 8 |
| 9 | Identifying diffusive motions in single-particle trajectories on the plasma membrane via fractional time-series models. Physical Review E, 2019, 99, 012101. | 2.1 | 11 |
| 10 | Normal and anomalous diffusion in fluctuations of dust concentration nearby emission source. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 619-631. | 2.6 | 4 |
| 11 | Optimal parameters for anomalous-diffusion-exponent estimation from noisy data. Physical Review E, 2018, 98, . | 2.1 | 22 |
| 12 | Statistical test for fractional Brownian motion based on detrending moving average algorithm. Chaos, Solitons and Fractals, 2018, 116, 54-62. | 5.1 | 15 |
| 13 | Recurrence statistics for anomalous diffusion regime change detection. Computational Statistics and Data Analysis, 2018, 128, 380-394. | 1.2 | 8 |
| 14 | Variance change point detection for fractional Brownian motion based on the likelihood ratio test. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 439-450. | 2.6 | 6 |
| 15 | Mean-squared-displacement statistical test for fractional Brownian motion. Physical Review E, 2017, 95, 032110. | 2.1 | 30 |
| 16 | Identification and validation of stable ARFIMA processes with application to UMTS data. Chaos, Solitons and Fractals, 2017, 102, 456-466. | 5.1 | 18 |
| 17 | Statistical properties of the anomalous scaling exponent estimator based on time-averaged mean-square displacement. Physical Review E, 2017, 96, 022132. | 2.1 | 26 |
| 18 | Elucidating distinct ion channel populations on the surface of hippocampal neurons via single-particle tracking recurrence analysis. Physical Review E, 2017, 96, 062404. | 2.1 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Identifying ergodicity breaking for fractional anomalous diffusion: Criteria for minimal trajectory length. <i>Physical Review E</i> , 2016, 94, 052136. | 2.1 | 9 |
| 20 | Discrimination of particulate matter emission sources using stochastic methods. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 463, 452-466. | 2.6 | 0 |
| 21 | Estimating the anomalous diffusion exponent for single particle tracking data with measurement errors - An alternative approach. <i>Scientific Reports</i> , 2015, 5, 11306. | 3.3 | 60 |
| 22 | Guidelines for the Fitting of Anomalous Diffusion Mean Square Displacement Graphs from Single Particle Tracking Experiments. <i>PLoS ONE</i> , 2015, 10, e0117722. | 2.5 | 115 |
| 23 | Estimation of FARIMA Parameters in the Case of Negative Memory and Stable Noise. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 2825-2835. | 5.3 | 17 |
| 24 | Modeling anomalous diffusion by a subordinated fractional Lévy-stable process. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P05016. | 2.3 | 15 |
| 25 | Diffusive and subdiffusive dynamics of indoor microclimate: A time series modeling. <i>Physical Review E</i> , 2012, 86, 031128. | 2.1 | 8 |
| 26 | Fractional process as a unified model for subdiffusive dynamics in experimental data. <i>Physical Review E</i> , 2012, 86, 041912. | 2.1 | 22 |
| 27 | Stability and lack of memory of the returns of the Hang Seng index. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 3136-3146. | 2.6 | 18 |