

Martin Schlather

List of Publications by Year in descending order

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56
papers

2,566
citations

331670

21
h-index

197818

49
g-index

58
all docs

58
docs citations

58
times ranked

2045
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic Models That Separate Fractal Dimension and the Hurst Effect. <i>SIAM Review</i> , 2004, 46, 269-282.	9.5	345
2	Matérn Cross-Covariance Functions for Multivariate Random Fields. <i>Journal of the American Statistical Association</i> , 2010, 105, 1167-1177.	3.1	302
3	Models for Stationary Max-Stable Random Fields. <i>Extremes</i> , 2002, 5, 33-44.	1.0	292
4	Stationary max-stable fields associated to negative definite functions. <i>Annals of Probability</i> , 2009, 37, .	1.8	263
5	Using Whole-Genome Sequence Data to Predict Quantitative Trait Phenotypes in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2012, 8, e1002685.	3.5	191
6	Analysis, Simulation and Prediction of Multivariate Random Fields with Package <code>RandomFields</code> . <i>Journal of Statistical Software</i> , 2015, 63, .	3.7	132
7	Detecting dependence between marks and locations of marked point processes. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2004, 66, 79-93.	2.2	95
8	Estimation of Half- α -Stable Lévy Processes and Brownian Resnick Processes. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2015, 77, 239-265.	2.2	73
9	Some covariance models based on normal scale mixtures. <i>Bernoulli</i> , 2010, 16, .	1.3	55
10	Fast and Exact Simulation of Large Gaussian Lattice Systems in \mathbb{R}^2 : Exploring the Limits. <i>Journal of Computational and Graphical Statistics</i> , 2006, 15, 483-501.	1.7	53
11	Simulation of Brownian Resnick processes. <i>Extremes</i> , 2012, 15, 89-107.	1.0	50
12	Accounting for Genetic Architecture Improves Sequence Based Genomic Prediction for a <i>Drosophila</i> Fitness Trait. <i>PLoS ONE</i> , 2015, 10, e0126880.	2.5	50
13	MoBPS - Modular Breeding Program Simulator. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 1915-1918.	1.8	49
14	Analogies and correspondences between variograms and covariance functions. <i>Advances in Applied Probability</i> , 2001, 33, 617-630.	0.7	45
15	Predicting Genetic Values: A Kernel-Based Best Linear Unbiased Prediction With Genomic Data. <i>Genetics</i> , 2011, 188, 695-708.	2.9	45
16	On the Second-Order Characteristics of Marked Point Processes. <i>Bernoulli</i> , 2001, 7, 99.	1.3	44
17	Ergodic properties of max-infinitely divisible processes. <i>Stochastic Processes and Their Applications</i> , 2010, 120, 281-295.	0.9	39
18	Inequalities for the Extremal Coefficients of Multivariate Extreme Value Distributions. <i>Extremes</i> , 2002, 5, 87-102.	1.0	37

#	ARTICLE	IF	CITATIONS
19	Statistical post-processing of forecasts for extremes using bivariate brown-resnick processes with an application to wind gusts. <i>Extremes</i> , 2017, 20, 309-332.	1.0	33
20	HaploBlocker: Creation of Subgroup-Specific Haplotype Blocks and Libraries. <i>Genetics</i> , 2019, 212, 1045-1061.	2.9	33
21	Origin Detection During Food-borne Disease Outbreaks - A Case Study of the 2011 EHEC/HUS Outbreak in Germany. <i>PLOS Currents</i> , 2014, 6, .	1.4	29
22	Random Sequential Adsorption: Relationship to Dead Leaves and Characterization of Variability. <i>Journal of Statistical Physics</i> , 2000, 100, 969-979.	1.2	27
23	A Network-Based Kernel Machine Test for the Identification of Risk Pathways in Genome-Wide Association Studies. <i>Human Heredity</i> , 2013, 76, 64-75.	0.8	25
24	High-level dependence in time series models. <i>Extremes</i> , 2010, 13, 1-33.	1.0	18
25	Construction of Covariance Functions and Unconditional Simulation of Random Fields. <i>Lecture Notes in Statistics</i> , 2012, , 25-54.	0.2	18
26	Tail correlation functions of max-stable processes. <i>Extremes</i> , 2015, 18, 241-271.	1.0	16
27	Exact and fast simulation of max-stable processes on a compact set using the normalized spectral representation. <i>Bernoulli</i> , 2018, 24, .	1.3	16
28	An exceptional max-stable process fully parameterized by its extremal coefficients. <i>Bernoulli</i> , 2015, 21, .	1.3	15
29	Limit Distributions Of Norms Of Vectors Of Positive I.I.D. Random Variables. <i>Annals of Probability</i> , 2001, 29, 862.	1.8	14
30	Covariance Models for Divergence-Free and Curl-Free Random Vector Fields. <i>Stochastic Models</i> , 2012, 28, 433-451.	0.5	14
31	A risk index for characterising flow pattern in soils using dye tracer distributions. <i>Journal of Contaminant Hydrology</i> , 2005, 79, 25-44.	3.3	11
32	Analogies and correspondences between variograms and covariance functions. <i>Advances in Applied Probability</i> , 2001, 33, 617-630.	0.7	10
33	Conditional sampling for max-stable processes with a mixed moving maxima representation. <i>Extremes</i> , 2014, 17, 157-192.	1.0	10
34	A stochastic model for 3-dimensional flow patterns in infiltration experiments. <i>Journal of Hydrology</i> , 2005, 310, 17-27.	5.4	9
35	A Scale-Corrected Comparison of Linkage Disequilibrium Levels between Genic and Non-Genic Regions. <i>PLoS ONE</i> , 2015, 10, e0141216.	2.5	9
36	Intrinsically weighted means and non-ergodic marked point processes. <i>Annals of the Institute of Statistical Mathematics</i> , 2016, 68, 1-24.	0.8	9

#	ARTICLE	IF	CITATIONS
37	Best Prediction of the Additive Genomic Variance in Random-Effects Models. <i>Genetics</i> , 2019, 213, 379-394.	2.9	8
38	A Novel Kernel for Correcting Size Bias in the Logistic Kernel Machine Test with an Application to Rheumatoid Arthritis. <i>Human Heredity</i> , 2012, 74, 97-108.	0.8	7
39	Statistical Inference for Max-Stable Processes by Conditioning on Extreme Events. <i>Advances in Applied Probability</i> , 2014, 46, 478-495.	0.7	7
40	A Formula for the Edge Length Distribution Function of the Poisson Voronoi Tessellation. <i>Mathematische Nachrichten</i> , 2000, 214, 113-119.	0.8	6
41	The realization problem for tail correlation functions. <i>Extremes</i> , 2017, 20, 121-168.	1.0	6
42	A MatÅ©rn-Based Multivariate Gaussian Random Process for a Consistent Model of the Horizontal Wind Components and Related Variables. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3833-3845.	1.7	6
43	Capturing the multivariate extremal index: bounds and interconnections. <i>Extremes</i> , 2008, 11, 353-377.	1.0	5
44	On the interaction of different types of ligands binding to the same molecule Part II: systems with n to 2 and n to 3 binding sites. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 696-714.	1.5	5
45	Statistical Inference for Max-Stable Processes by Conditioning on Extreme Events. <i>Advances in Applied Probability</i> , 2014, 46, 478-495.	0.7	5
46	Joint extremal behavior of hidden and observable time series with applications to GARCH processes. <i>Extremes</i> , 2015, 18, 109-140.	1.0	5
47	On the interaction of two different types of ligands binding to the same molecule part I: basics and the transfer of the decoupled sites representation to systems with n and one binding sites. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 672-695.	1.5	4
48	A derivation of the Grand Canonical Partition Function for systems with a finite number of binding sites using a Markov chain model for the dynamics of single molecules. <i>Journal of Mathematical Chemistry</i> , 2014, 52, 665-674.	1.5	4
49	A parametric model bridging between bounded and unbounded variograms. <i>Stat</i> , 2017, 6, 47-52.	0.4	4
50	Fast and exact simulation of univariate and bivariate Gaussian random fields. <i>Stat</i> , 2018, 7, e188.	0.4	3
51	Marked point process adjusted tail dependence analysis for high-frequency financial data. <i>Statistics and Its Interface</i> , 2015, 8, 109-122.	0.3	3
52	On a Class of Models of Stochastic Geometry Constructed by Random Measures. <i>Mathematische Nachrichten</i> , 2000, 213, 141-154.	0.8	2
53	Local approximation of variograms by covariance functions. <i>Statistics and Probability Letters</i> , 2006, 76, 1303-1304.	0.7	2
54	A Model for Carrier-Mediated Biological Signal Transduction Based on Equilibrium Ligand Binding Theory. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 1039-1057.	1.9	2

#	ARTICLE	IF	CITATIONS
55	Sampling sup-norm normalized spectral functions for Brown-Resnick processes. Stat, 2019, 8, e228.	0.4	1
56	A generalization of Mat-orn hard-core processes with applications to max-stable processes. Journal of Applied Probability, 2020, 57, 1298-1312.	0.7	0