

Dionissios Hristopoulos

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4880101/dionissios-hristopoulos-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

1,298
citations

21
h-index

31
g-index

137
ext. papers

1,530
ext. citations

2.8
avg, IF

5.24
L-index

#	Paper	IF	Citations
113	Methods for generating non-separable spatiotemporal covariance models with potential environmental applications. <i>Advances in Water Resources</i> , 2004 , 27, 815-830	4.7	99
112	Comparison of stochastic and deterministic methods for mapping groundwater level spatial variability in sparsely monitored basins. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 1-19	3.1	87
111	Spartan Gibbs Random Field Models for Geostatistical Applications. <i>SIAM Journal of Scientific Computing</i> , 2003 , 24, 2125-2162	2.6	59
110	Spatiotemporal Environmental Health Modelling: A Tractatus Stochasticus 1998 ,		59
109	Improvement of groundwater level prediction in sparsely gauged basins using physical laws and local geographic features as auxiliary variables. <i>Advances in Water Resources</i> , 2013 , 52, 34-49	4.7	45
108	INTAMAP: The design and implementation of an interoperable automated interpolation web service. <i>Computers and Geosciences</i> , 2011 , 37, 343-352	4.5	45
107	. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 4667-4679	2.8	44
106	An application of Spartan spatial random fields in environmental mapping: focus on automatic mapping capabilities. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008 , 22, 633-646	3.5	36
105	Improving kriging of groundwater level data using nonlinear normalizing transformations field application. <i>Hydrological Sciences Journal</i> , 2012 , 57, 1404-1419	3.5	32
104	Renormalization group methods in subsurface hydrology: overview and applications in hydraulic conductivity upscaling. <i>Advances in Water Resources</i> , 2003 , 26, 1279-1308	4.7	32
103	Nonparametric Identification of Anisotropic (Elliptic) Correlations in Spatially Distributed Data Sets. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 4738-4751	4.8	31
102	Fault-slip accumulation in an active rift over thousands to millions of years and the importance of paleoearthquake sampling. <i>Journal of Structural Geology</i> , 2012 , 36, 71-80	3	30
101	Random Fields for Spatial Data Modeling. <i>Advances in Geographic Information Science</i> , 2020 ,	0.3	26
100	Computationally Efficient Spatial Interpolators Based on Spartan Spatial Random Fields. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 3475-3487	4.8	25
99	Variational calculation of the effective fluid permeability of heterogeneous media. <i>Physical Review E</i> , 1997 , 55, 7288-7298	2.4	25
98	Relationships between correlation lengths and integral scales for covariance models with more than two parameters. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 11-19	3.5	24
97	Stochastic Diagrammatic Analysis of Groundwater Flow in Heterogeneous Porous Media. <i>Water Resources Research</i> , 1995 , 31, 1687-1703	5.4	24

96	Stochastic Local Interaction (SLI) model: Bridging machine learning and geostatistics. <i>Computers and Geosciences</i> , 2015 , 85, 26-37	4.5	23
95	On the physical geometry concept at the basis of space/time geostatistical hydrology. <i>Advances in Water Resources</i> , 2000 , 23, 799-810	4.7	23
94	Practical Calculation of Non-Gaussian Multivariate Moments in Spatiotemporal Bayesian Maximum Entropy Analysis. <i>Mathematical Geosciences</i> , 2001 , 33, 543-568		21
93	Comparison of spatiotemporal variogram functions based on a sparse dataset of groundwater level variations. <i>Spatial Statistics</i> , 2019 , 34, 100245	2.2	21
92	Structural disorder effects on the tensile strength distribution of heterogeneous brittle materials with emphasis on fiber networks. <i>Physical Review B</i> , 2004 , 70,	3.3	20
91	Normal faulting in the forearc of the Hellenic subduction margin: Paleoearthquake history and kinematics of the Spili Fault, Crete, Greece. <i>Journal of Structural Geology</i> , 2014 , 66, 298-308	3	18
90	Using GPS for monitoring tall-building response to wind loading: filtering of abrupt changes and low-frequency noise, variography and spectral analysis of displacements. <i>GPS Solutions</i> , 2007 , 11, 85-95	4.4	18
89	Geostatistical analysis of precipitation in the island of Crete (Greece) based on a sparse monitoring network. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 353	3.1	17
88	Covariance functions motivated by spatial random field models with local interactions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 739-754	3.5	15
87	Finite-size effects on return interval distributions for weakest-link-scaling systems. <i>Physical Review E</i> , 2014 , 89, 052142	2.4	15
86	The β -statistics approach to epidemiology. <i>Scientific Reports</i> , 2020 , 10, 19949	4.9	15
85	Estimation of the uncertainty of hydrologic predictions in a karstic Mediterranean watershed. <i>Science of the Total Environment</i> , 2020 , 717, 137131	10.2	13
84	Environmental time series interpolation based on Spartan random processes. <i>Atmospheric Environment</i> , 2008 , 42, 7669-7678	5.3	13
83	Permissibility of fractal exponents and models of band-limited two-point functions for fGn and fBm random fields. <i>Stochastic Environmental Research and Risk Assessment</i> , 2003 , 17, 191-216	3.5	13
82	Stochastic indicator analysis of contaminated sites. <i>Journal of Applied Probability</i> , 1997 , 34, 988-1008	0.8	12
81	Stochastic Indicators for Waste Site Characterization. <i>Water Resources Research</i> , 1996 , 32, 2563-2578	5.4	12
80	Characterization of atmospheric pollution by means of stochastic indicator parameters. <i>Atmospheric Environment</i> , 1996 , 30, 3811-3823	5.3	12
79	Operational Soil Moisture from ASCAT in Support of Water Resources Management. <i>Remote Sensing</i> , 2019 , 11, 579	5	11

78	Approximate methods for explicit calculations of non-Gaussian moments. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006 , 20, 278-290	3.5	11
77	Reconstruction of missing data in remote sensing images using conditional stochastic optimization with global geometric constraints. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 785-806	3.5	10
76	Strength statistics and the distribution of earthquake interevent times. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 485-496	3.3	10
75	Patterns of tectonic fault interactions captured through geostatistical analysis of microearthquakes. <i>Journal of Geophysical Research</i> , 2011 , 116,		10
74	The Method of Normalized Correlations: A Fast Parameter Estimation Method for Random Processes and Isotropic Random Fields That Focuses on Short-Range Dependence. <i>Technometrics</i> , 2009 , 51, 173-185	1.4	10
73	Weakest-Link Scaling and Extreme Events in Finite-Sized Systems. <i>Entropy</i> , 2015 , 17, 1103-1122	2.8	9
72	Multivariate Spartan spatial random field models. <i>Probabilistic Engineering Mechanics</i> , 2014 , 37, 84-92	2.6	9
71	Introduction to this special issue on geoinformatics for environmental surveillance. <i>Computers and Geosciences</i> , 2011 , 37, 277-279	4.5	9
70	A multigrid method for the estimation of geometric anisotropy in environmental data from sensor networks. <i>Computers and Geosciences</i> , 2011 , 37, 320-330	4.5	9
69	Diagrammatic theory of effective hydraulic conductivity. <i>Stochastic Hydrology & Hydraulics</i> , 1997 , 11, 369-395		9
68	An analysis of hydraulic conductivity upscaling. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997 , 30, 4979-4984	1.3	9
67	A semi-analytical equation for the Young's modulus of isotropic ceramic materials. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 1111-1120	6	9
66	Disrupted Information Flow in Resting-State in Adolescents With Sports Related Concussion. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 419	3.3	9
65	Classification of missing values in spatial data using spin models. <i>Physical Review E</i> , 2009 , 80, 011116	2.4	8
64	Multiphase flow in heterogeneous porous media from a stochastic differential geometry viewpoint. <i>Water Resources Research</i> , 1998 , 34, 93-102	5.4	8
63	Exploring the use of Unmanned Aerial Vehicles (UAVs) with the simplified Triangle technique for soil water content and evaporative fraction retrievals in a Mediterranean setting. <i>International Journal of Remote Sensing</i> , 2021 , 42, 1623-1642	3.1	8
62	Stochastic local interaction model with sparse precision matrix for space-time interpolation. <i>Spatial Statistics</i> , 2020 , 40, 100403	2.2	7
61	Karhunen-Loève expansion of Spartan spatial random fields. <i>Probabilistic Engineering Mechanics</i> , 2016 , 43, 132-147	2.6	7

60	A Directional Gradient-Curvature method for gap filling of gridded environmental spatial data with potentially anisotropic correlations. <i>Atmospheric Environment</i> , 2013 , 77, 901-909	5.3	7
59	Evaporative Fluxes and Surface Soil Moisture Retrievals in a Mediterranean Setting from Sentinel-3 and the Simplified Triangle. <i>Remote Sensing</i> , 2020 , 12, 3192	5	7
58	Space-time covariance functions based on linear response theory and the turning bands method. <i>Spatial Statistics</i> , 2017 , 22, 321-337	2.2	6
57	Stochastic Radon operators in porous media hydrodynamics. <i>Quarterly of Applied Mathematics</i> , 1997 , 55, 89-112	0.7	6
56	Spatial random field models inspired from statistical physics with applications in the geosciences. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 365, 211-216	3.3	6
55	Spatial modeling of lignite energy reserves for exploitation planning and quality control. <i>Energy</i> , 2015 , 93, 1906-1917	7.9	5
54	Estimating tree abundance from remotely sensed imagery in semi-arid and arid environments: bringing small trees to the light. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 111-118	3.5	5
53	Spartan random processes in time series modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 3995-4001	3.3	5
52	A discrete nonlinear mass transfer equation with applications in solid-state sintering of ceramic materials. <i>European Physical Journal B</i> , 2006 , 50, 83-87	1.2	5
51	Non-parametric approximations for anisotropy estimation in two-dimensional differentiable Gaussian random fields. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1853-1870	3.5	4
50	Detection of small-scale rockfall incidents using their seismic signature 2015 ,		4
49	The importance of microearthquakes in crustal extension of an active rift: A case study from New Zealand. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 1556-1568	3.6	4
48	Stochastic space transforms in subsurface hydrology [Part 2: Generalized spectral decompositions and plancherel representations. <i>Stochastic Hydrology & Hydraulics</i> , 1994 , 8, 117-138		4
47	Spatiotemporal geostatistical analysis of precipitation combining ground and satellite observations 2021 , 52, 804-820		4
46	Recurrent neural network-based acute concussion classifier using raw resting state EEG data. <i>Scientific Reports</i> , 2021 , 11, 12353	4.9	4
45	Stochastic Modeling of Aquifer Level Temporal Fluctuations Based on the Conceptual Basis of the Soil-Water Balance Equation. <i>Soil Science</i> , 2016 , 181, 224-231	0.9	4
44	Gibbs Markov random fields with continuous values based on the modified planar rotator model. <i>Physical Review E</i> , 2018 , 98,	2.4	4
43	Kinetic model of mass exchange with dynamic Arrhenius transition rates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 444, 95-109	3.3	3

42	Nonlinear Kinetics on Lattices Based on the Kinetic Interaction Principle. <i>Entropy</i> , 2018 , 20,	2.8	3
41	Multilevel discretized random field models with $\mathbb{E}[\text{pin}]\text{correlations}$ for the simulation of environmental spatial data. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P02023	1.9	3
40	Stochastic Flowpath Analysis of Multiphase Flow in Random Porous Media. <i>SIAM Journal on Applied Mathematics</i> , 2000 , 60, 1520-1542	1.8	3
39	Resting-state directed brain connectivity patterns in adolescents from source-reconstructed EEG signals based on information flow rate		3
38	Space-time models based on random fields with local interactions. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1541007	1.1	3
37	Numerical Implementation of a Space-Transformation Approach for Solving the Three-Dimensional Flow Equation. <i>SIAM Journal of Scientific Computing</i> , 1998 , 20, 619-647	2.6	2
36	SIMULATIONS OF SPARTAN RANDOM FIELDS 2003 ,		2
35	Geometric Properties of Random Fields. <i>Advances in Geographic Information Science</i> , 2020 , 173-244	0.3	2
34	GPU-Accelerated Simulation of Massive Spatial Data Based on the Modified Planar Rotator Model. <i>Mathematical Geosciences</i> , 2020 , 52, 123-143	2.5	2
33	Non-parametric Kernel-Based Estimation and Simulation of Precipitation Amount. <i>Journal of Hydrology</i> , 2022 , 127988	6	2
32	Effective probability distribution approximation for the reconstruction of missing data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 235-249	3.5	1
31	Short-range correlations in modified planar rotator model. <i>Journal of Physics: Conference Series</i> , 2015 , 633, 012105	0.3	1
30	Gaussian Random Fields. <i>Advances in Geographic Information Science</i> , 2020 , 245-307	0.3	1
29	Disrupted information flow in resting-state in adolescents with sports related concussion		1
28	Retrievals of key biophysical parameters at mesoscale from the Ts/VI scatterplot domain. <i>Geocarto International</i> , 2020 , 1-21	2.7	1
27	Stochastic Local Interaction Model: An Alternative to Kriging for Massive Datasets. <i>Mathematical Geosciences</i> , 1	2.5	1
26	Geo-informatics for optimal design of desalination plants using renewable energy sources: the DES2iRES platform paradigm. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	0
25	Numerical simulation of a coupled nonlinear model for grain coarsening and coalescence. <i>Simulation Modelling Practice and Theory</i> , 2016 , 62, 102-116	3.9	0

24	Deep Learning Recurrent Neural Network for Concussion Classification in Adolescents Using Raw Electroencephalography Signals: Toward a Minimal Number of Sensors.. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 734501	3.3	0
23	Efficient and Scalable Approach to Equilibrium Conditional Simulation of Gibbs Markov Random Fields. <i>EPJ Web of Conferences</i> , 2020 , 226, 02023	0.3	0
22	Numerical Investigation of Grain Coarsening and Coalescence Model. <i>Journal of Physics: Conference Series</i> , 2015 , 574, 012160	0.3	
21	Spartan gaussian random fields for geostatistical applications: Non-constrained simulations on square lattices and irregular grids. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2006 , 5, 149-164	0.3	
20	Very Fast Simulated Reannealing. <i>Encyclopedia of Earth Sciences Series</i> , 2022 , 1-6	0	
19	More on Estimation. <i>Advances in Geographic Information Science</i> , 2020 , 551-589	0.3	
18	More on Spatial Prediction. <i>Advances in Geographic Information Science</i> , 2020 , 485-515	0.3	
17	Trend Models and Estimation. <i>Advances in Geographic Information Science</i> , 2020 , 41-81	0.3	
16	Lattice Representations of Spartan Random Fields. <i>Advances in Geographic Information Science</i> , 2020 , 365-392	0.3	
15	Random Fields Based on Local Interactions. <i>Advances in Geographic Information Science</i> , 2020 , 309-363	0.3	
14	Basic Notions of Random Fields. <i>Advances in Geographic Information Science</i> , 2020 , 83-125	0.3	
13	Spartan Random Fields: Smoothness Properties of Gaussian Densities and Definition of Certain Non-Gaussian Models 2009 , 17-27		
12	Maximum Entropy Method. <i>Encyclopedia of Earth Sciences Series</i> , 2021 , 1-4	0	
11	Geo-Informatics for Optimal Design of Desalination Plants Using Renewable Energy Sources: The DESIRES Platform Paradigm. <i>Advances in Science, Technology and Innovation</i> , 2019 , 53-55	0.3	
10	Mathematical Modelling of Formation and Dissociation of Gas Hydrate in the Sea Floor Sediment 2019 , 402-405		
9	Beyond the Gaussian Models. <i>Advances in Geographic Information Science</i> , 2020 , 591-643	0.3	
8	Basic Concepts and Methods of Estimation. <i>Advances in Geographic Information Science</i> , 2020 , 517-550	0.3	
7	Spatial Prediction Fundamentals. <i>Advances in Geographic Information Science</i> , 2020 , 433-484	0.3	

- 6 Binary Random Fields. *Advances in Geographic Information Science*, **2020**, 645-688 0.3
- 5 Additional Topics of Random Field Modeling. *Advances in Geographic Information Science*, **2020**, 127-171 0.3
- 4 Spartan Random Fields and Langevin Equations. *Advances in Geographic Information Science*, **2020**, 393-433
- 3 Simulations. *Advances in Geographic Information Science*, **2020**, 689-784 0.3
- 2 Modelling key parameters characterising land surface using the SimSphere SVAT model **2021**, 409-442
- 1 A preliminary evaluation of the Simplified triangle with Sentinel-3 images for mapping surface soil moisture and evaporative fluxes: results obtained in a Spanish savannah environment **2021**, 209-223