Dionissios Hristopulos

List of Publications by Year in Descending Order

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

1,298 113 31 21 h-index g-index citations papers 2.8 1,530 137 5.24 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
113	Very Fast Simulated Reannealing. Encyclopedia of Earth Sciences Series, 2022, 1-6	0	
112	Non-parametric Kernel-Based Estimation and Simulation of Precipitation Amount. <i>Journal of Hydrology</i> , 2022 , 127988	6	2
111	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	O
110	Maximum Entropy Method. Encyclopedia of Earth Sciences Series, 2021, 1-4	О	
109	Spatiotemporal geostatistical analysis of precipitation combining ground and satellite observations 2021 , 52, 804-820		4
108	Recurrent neural network-based acute concussion classifier using raw resting state EEG data. <i>Scientific Reports</i> , 2021 , 11, 12353	4.9	4
107	Exploring the use of Unmanned Aerial Vehicles (UAVs) with the simplified EriangleItechnique 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
106	Modelling key parameters characterising land surface using the SimSphere SVAT model 2021 , 409-442		
105	A preliminary evaluation of the limplified triangle with Sentinel-3 images for mapping surface soil moisture and evaporative fluxes: results obtained in a Spanish savannah environment 2021 , 209-223		
104	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	O
103	Stochastic local interaction model with sparse precision matrix for spacelime interpolation. <i>Spatial Statistics</i> , 2020 , 40, 100403	2.2	7
102	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
101	Random Fields for Spatial Data Modeling. Advances in Geographic Information Science, 2020,	0.3	26
100	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
99	More on Estimation. Advances in Geographic Information Science, 2020, 551-589	0.3	
98	More on Spatial Prediction. Advances in Geographic Information Science, 2020, 485-515	0.3	
97	Trend Models and Estimation. Advances in Geographic Information Science, 2020, 41-81	0.3	

(2019-2020)

Lattice Representations of Spartan Random Fields. <i>Advances in Geographic Information Science</i> , 2020 , 365-392	0.3		
Random Fields Based on Local Interactions. <i>Advances in Geographic Information Science</i> , 2020 , 309-363	0.3		
Basic Notions of Random Fields. Advances in Geographic Information Science, 2020, 83-125	0.3		
Gaussian Random Fields. Advances in Geographic Information Science, 2020, 245-307	0.3	1	
Beyond the Gaussian Models. Advances in Geographic Information Science, 2020, 591-643	0.3		
Basic Concepts and Methods of Estimation. Advances in Geographic Information Science, 2020, 517-550	0.3		
Spatial Prediction Fundamentals. Advances in Geographic Information Science, 2020, 433-484	0.3		
Binary Random Fields. Advances in Geographic Information Science, 2020, 645-688	0.3		
Additional Topics of Random Field Modeling. Advances in Geographic Information Science, 2020, 127-17	1 0.3		
Spartan Random Fields and Langevin Equations. Advances in Geographic Information Science, 2020, 393-	-4323		
Simulations. Advances in Geographic Information Science, 2020 , 689-784	0.3		
Geometric Properties of Random Fields. Advances in Geographic Information Science, 2020, 173-244	0.3	2	
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	
Evaporative Fluxes and Surface Soil Moisture Retrievals in a Mediterranean Setting from Sentinel-3 and the Bimplified Triangle[] Remote Sensing, 2020, 12, 3192	5	7	
Retrievals of key biophysical parameters at mesoscale from the Ts/VI scatterplot domain. <i>Geocarto International</i> , 2020 , 1-21	2.7	1	
The Estatistics approach to epidemiology. <i>Scientific Reports</i> , 2020 , 10, 19949	4.9	15	
Efficient and Scalable Approach to Equilibrium Conditional Simulation of Gibbs Markov Random Fields. <i>EPJ Web of Conferences</i> , 2020 , 226, 02023	0.3	O	
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	
	Random Fields Based on Local Interactions. Advances in Geographic Information Science, 2020, 309-363 Basic Notions of Random Fields. Advances in Geographic Information Science, 2020, 83-125 Gaussian Random Fields. Advances in Geographic Information Science, 2020, 245-307 Beyond the Gaussian Models. Advances in Geographic Information Science, 2020, 591-643 Basic Concepts and Methods of Estimation. Advances in Geographic Information Science, 2020, 591-643 Basic Concepts and Methods of Estimation. Advances in Geographic Information Science, 2020, 433-484 Binary Random Fields. Advances in Geographic Information Science, 2020, 645-688 Additional Topics of Random Field Modeling. Advances in Geographic Information Science, 2020, 127-17 Spartan Random Fields and Langevin Equations. Advances in Geographic Information Science, 2020, 127-17 Spartan Random Fields and Langevin Equations. Advances in Geographic Information Science, 2020, 127-17 GPU-Accelerated Simulation of Massive Spatial Data Based on the Modified Planar Rotator Model. Mathematical Geosciences, 2020, 52, 123-143 Evaporative Fluxes and Surface Soil Mostive Retrievals in a Mediterranean Setting from Sentinel-3 and the Simplified TriangleURemote Sensing, 2020, 12, 3192 Retrievals of key biophysical parameters at mesoscale from the Ts/VI scatterplot domain. Geocarto International, 2020, 1-21 The Estatistics approach to epidemiology. Scientific Reports, 2020, 10, 19949 Efficient and Scalable Approach to Equilibrium Conditional Simulation of Gibbs Markov Random Fields. EPJ Web of Conferences, 2020, 226, 02023 Geostatistical analysis of precipitation in the island of Crete (Greece) based on a sparse monitoring	Random Fields Based on Local Interactions. Advances in Geographic Information Science, 2020, 309-363 o.3 Basic Notions of Random Fields. 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Mathematical Geosciences, 2020, 52, 123-143 Evaporative Fluxes and Surface Soil Moisture Retrievals in a Mediterranean Setting from Sentinel-3 and the Bimplified TriangleURemote Sensing, 2020, 12, 3192 Retrievals of key biophysical parameters at mesoscale from the Ts/VI scatterplot domain. Geocarto International, 2020, 1-21 The Batatistics approach to epidemiology. Scientific Reports, 2020, 10, 19949 Efficient and Scalable Approach to Equilibrium Conditional Simulation of Gibbs Markov Random Fields. EPJ Web of Conferences, 2020, 226, 02023 Geostatistical analysis of precipitation in the Island of Crete (Greece) based on a sparse monitoring	Random Fields Based on Local Interactions. Advances in Geographic Information Science, 2020, 309-363 o.3 Basic Notions of Random Fields. Advances in Geographic Information Science, 2020, 83-125 o.3 Gaussian Random Fields. Advances in Geographic Information Science, 2020, 245-307 o.3 Beyond the Gaussian Models. 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Advances in Geographic Information Science, 2020, 127-171 o.3 Spatial Productions of Random Fields. Advances in Geographic Information Science, 2020, 127-171 o.3 Spatial Productions of Random Fields. Advances in Geographic Information Science, 2020, 173-244 o.3 Geometric Properties of Random Fields. Advances in Geographic Information Science, 2020, 173-244 o.3 Evaporative Fluxes and Surface Soil Moisture Retrievals in a Mediterranean Setting from Sentinel-3 and the Bimplified TriangleIRemote Sensing, 2020, 12, 3192 Evaporative Fluxes and Surface Soil Moisture Retrievals in a Mediterranean Setting from Sentinel-3 and the Bimplified TriangleIRemote Sensing, 2020, 12, 3192 Evaporative Fluxes and Surface Soil Moisture Retrievals in a Mediterranean Se

78	Operational Soil Moisture from ASCAT in Support of Water Resources Management. <i>Remote Sensing</i> , 2019 , 11, 579	5	11
77	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	
76	Mathematical Modelling of Formation and Dissociation of Gas Hydrate in the Sea Floor Sediment 2019 , 402-405		
75	Disrupted Information Flow in Resting-State in Adolescents With Sports Related Concussion. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 419	3.3	9
74	Comparison of spatiotemporal variogram functions based on a sparse dataset of groundwater level variations. <i>Spatial Statistics</i> , 2019 , 34, 100245	2.2	21
73	Nonlinear Kinetics on Lattices Based on the Kinetic Interaction Principle. <i>Entropy</i> , 2018 , 20,	2.8	3
72	Gibbs Markov random fields with continuous values based on the modified planar rotator model. <i>Physical Review E</i> , 2018 , 98,	2.4	4
71	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
70	Spacelime covariance functions based on linear response theory and the turning bands method. <i>Spatial Statistics</i> , 2017 , 22, 321-337	2.2	6
69	Karhunen∐o∏e expansion of Spartan spatial random fields. <i>Probabilistic Engineering Mechanics</i> , 2016 , 43, 132-147	2.6	7
68	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	О
67	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
66	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
65	Space-time models based on random fields with local interactions. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1541007	1.1	3
64	Detection of small-scale rockfall incidents using their seismic signature 2015,		4
63	Weakest-Link Scaling and Extreme Events in Finite-Sized Systems. <i>Entropy</i> , 2015 , 17, 1103-1122	2.8	9
62	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
61	Numerical Investigation of Grain Coarsening and Coalescence Model. <i>Journal of Physics: Conference Series</i> , 2015 , 574, 012160	0.3	

(2011-2015)

60	Short-range correlations in modified planar rotator model. <i>Journal of Physics: Conference Series</i> , 2015 , 633, 012105	0.3	1
59	Stochastic Local Interaction (SLI) model: Bridging machine learning and geostatistics. <i>Computers and Geosciences</i> , 2015 , 85, 26-37	4.5	23
58	Spatial modeling of lignite energy reserves for exploitation planning and quality control. <i>Energy</i> , 2015 , 93, 1906-1917	7.9	5
57	Finite-size effects on return interval distributions for weakest-link-scaling systems. <i>Physical Review E</i> , 2014 , 89, 052142	2.4	15
56	Multivariate Spartan spatial random field models. <i>Probabilistic Engineering Mechanics</i> , 2014 , 37, 84-92	2.6	9
55	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
54	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	5 <i>-</i> 856	10
53	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
52	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
51	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
50	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
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	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
47	Improving kriging of groundwater level data using nonlinear normalizing transformations field application. <i>Hydrological Sciences Journal</i> , 2012 , 57, 1404-1419	3.5	32
46	Patterns of tectonic fault interactions captured through geostatistical analysis of microearthquakes. <i>Journal of Geophysical Research</i> , 2011 , 116,		10
45	INTAMAP: The design and implementation of an interoperable automated interpolation web service. <i>Computers and Geosciences</i> , 2011 , 37, 343-352	4.5	45
44	Introduction to this special issue on geoinformatics for environmental surveillance. <i>Computers and Geosciences</i> , 2011 , 37, 277-279	4.5	9
43	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

42	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
41	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, 111-1	1985	5
40	Computationally Efficient Spatial Interpolators Based on Spartan Spatial Random Fields. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 3475-3487	4.8	25
39	Classification of missing values in spatial data using spin models. <i>Physical Review E</i> , 2009 , 80, 011116	2.4	8
38	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
37	Multilevel discretized random field models with Bpin correlations for the simulation of environmental spatial data. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P02023	1.9	3
36	Spartan Random Fields: Smoothness Properties of Gaussian Densities and Definition of Certain Non-Gaussian Models 2009 , 17-27		
35	Environmental time series interpolation based on Spartan random processes. <i>Atmospheric Environment</i> , 2008 , 42, 7669-7678	5.3	13
34	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
33	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
32	Spartan random processes in time series modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 3995-4001	3.3	5
31	A semi-analytical equation for the Young modulus of isotropic ceramic materials. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 1111-1120	6	9
30	. IEEE Transactions on Information Theory, 2007 , 53, 4667-4679	2.8	44
29	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
28	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	
27	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
26	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
25	Approximate methods for explicit calculations of non-Gaussian moments. Stochastic Environmental Research and Risk Assessment, 2006 , 20, 278-290	3.5	11

(1996-2004)

24	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	
23	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	
22	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	
21	Spartan Gibbs Random Field Models for Geostatistical Applications. <i>SIAM Journal of Scientific Computing</i> , 2003 , 24, 2125-2162	2.6	59	
20	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	
19	SIMULATIONS OF SPARTAN RANDOM FIELDS 2003 ,		2	
18	Practical Calculation of Non-Gaussian Multivariate Moments in Spatiotemporal Bayesian Maximum Entropy Analysis. <i>Mathematical Geosciences</i> , 2001 , 33, 543-568		21	
17	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	
16	Stochastic Flowpath Analysis of Multiphase Flow in Random Porous Media. <i>SIAM Journal on Applied Mathematics</i> , 2000 , 60, 1520-1542	1.8	3	
15	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	
14	Multiphase flow in heterogeneous porous media from a stochastic differential geometry viewpoint. <i>Water Resources Research</i> , 1998 , 34, 93-102	5.4	8	
13	Spatiotemporal Environmental Health Modelling: A Tractatus Stochasticus 1998,		59	
12	Stochastic indicator analysis of contaminated sites. <i>Journal of Applied Probability</i> , 1997 , 34, 988-1008	0.8	12	
11	Variational calculation of the effective fluid permeability of heterogeneous media. <i>Physical Review E</i> , 1997 , 55, 7288-7298	2.4	25	
10	Stochastic Radon operators in porous media hydrodynamics. <i>Quarterly of Applied Mathematics</i> , 1997 , 55, 89-112	0.7	6	
9	Diagrammatic theory of effective hydraulic conductivity. <i>Stochastic Hydrology & Hydraulics</i> , 1997 , 11, 369-395		9	
8	An analysis of hydraulic conductivity upscaling. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997 , 30, 4979-4984	1.3	9	
7	Stochastic Indicators for Waste Site Characterization. <i>Water Resources Research</i> , 1996 , 32, 2563-2578	5.4	12	

6	Characterization of atmospheric pollution by means of stochastic indicator parameters. <i>Atmospheric Environment</i> , 1996 , 30, 3811-3823	5.3	12
5	Stochastic Diagrammatic Analysis of Groundwater Flow in Heterogeneous Porous Media. <i>Water Resources Research</i> , 1995 , 31, 1687-1703	5.4	24
4	Stochastic space transforms in subsurface hydrology IPart 2: Generalized spectral decompositions and plancherel representations. <i>Stochastic Hydrology & Hydraulics</i> , 1994 , 8, 117-138		4
	Resting-state directed brain connectivity patterns in adolescents from source-reconstructed EEG		
3	signals based on information flow rate		3
2			1