

Sandra De Iaco

List of Publications by Year in descending order

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47
papers

858
citations

471509

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526287

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g-index

52
all docs

52
docs citations

52
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonseparable Space-Time Covariance Models: Some Parametric Families. <i>Mathematical Geosciences</i> , 2002, 34, 23-42.	0.9	111
2	Space-time variograms and a functional form for total air pollution measurements. <i>Computational Statistics and Data Analysis</i> , 2002, 41, 311-328.	1.2	56
3	Prediction of particle pollution through spatio-temporal multivariate geostatistical analysis: spatial special issue. <i>ASTA Advances in Statistical Analysis</i> , 2013, 97, 133-150.	0.9	54
4	The Linear Coregionalization Model and the Product-Sum Space-Time Variogram. <i>Mathematical Geosciences</i> , 2003, 35, 25-38.	0.9	43
5	Space-time radial basis functions. <i>Computers and Mathematics With Applications</i> , 2002, 43, 539-549.	2.7	36
6	Positive and negative non-separability for space-time covariance models. <i>Journal of Statistical Planning and Inference</i> , 2013, 143, 378-391.	0.6	34
7	Space-time correlation analysis: a comparative study. <i>Journal of Applied Statistics</i> , 2010, 37, 1027-1041.	1.3	32
8	Predicting spatio-temporal random fields: Some computational aspects. <i>Computers and Geosciences</i> , 2012, 41, 12-24.	4.2	32
9	Characteristics of some classes of space-time covariance functions. <i>Journal of Statistical Planning and Inference</i> , 2013, 143, 2002-2015.	0.6	31
10	Validation Techniques for Geological Patterns Simulations Based on Variogram and Multiple-Point Statistics. <i>Mathematical Geosciences</i> , 2011, 43, 483-500.	2.4	29
11	On strict positive definiteness of product and product-sum covariance models. <i>Journal of Statistical Planning and Inference</i> , 2011, 141, 1132-1140.	0.6	28
12	Modeling and prediction of multivariate space-time random fields. <i>Computational Statistics and Data Analysis</i> , 2005, 48, 525-547.	1.2	25
13	Testing the type of non-separability and some classes of space-time covariance function models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 17-35.	4.0	25
14	Strict positive definiteness in geostatistics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 577-590.	4.0	25
15	Spatio-temporal geostatistical modeling for French fertility predictions. <i>Spatial Statistics</i> , 2015, 14, 546-562.	1.9	22
16	FORTTRAN programs for space-time multivariate modeling and prediction. <i>Computers and Geosciences</i> , 2010, 36, 636-646.	4.2	21
17	Towards an automatic procedure for modeling multivariate space-time data. <i>Computers and Geosciences</i> , 2012, 41, 1-11.	4.2	20
18	Strict Positive Definiteness of a Product of Covariance Functions. <i>Communications in Statistics - Theory and Methods</i> , 2011, 40, 4400-4408.	1.0	18

#	ARTICLE	IF	CITATIONS
19	Isotropy, symmetry, separability and strict positive definiteness for covariance functions: A critical review. <i>Spatial Statistics</i> , 2019, 29, 89-108.	1.9	18
20	Choosing suitable linear coregionalization models for spatio-temporal data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 1419-1434.	4.0	16
21	Using Simultaneous Diagonalization to Identify a Space-Time Linear Coregionalization Model. <i>Mathematical Geosciences</i> , 2013, 45, 69-86.	2.4	15
22	Covariance functions and models for complex-valued random fields. <i>Stochastic Environmental Research and Risk Assessment</i> , 2003, 17, 145-156.	4.0	14
23	Wind velocity prediction through complex kriging: formalism and computational aspects. <i>Environmental and Ecological Statistics</i> , 2016, 23, 115-139.	3.5	14
24	covatest : An <i>R</i> Package for Selecting a Class of Space-Time Covariance Functions. <i>Journal of Statistical Software</i> , 2020, 94, .	3.7	14
25	On Some Characteristics of Gaussian Covariance Functions. <i>International Statistical Review</i> , 2021, 89, 36-53.	1.9	13
26	A new space-time multivariate approach for environmental data analysis. <i>Journal of Applied Statistics</i> , 2011, 38, 2471-2483.	1.3	12
27	Complex-Valued Random Fields for Vectorial Data: Estimating and Modeling Aspects. <i>Mathematical Geosciences</i> , 2013, 45, 557-573.	2.4	11
28	Total Air Pollution And Space-Time Modelling. <i>Quantitative Geology and Geostatistics</i> , 2001, , 45-56.	0.1	9
29	The residential real estate market in Italy: a spatio-temporal analysis. <i>Quality and Quantity</i> , 2019, 53, 2451-2472.	3.7	7
30	Modeling spatio-temporal complex covariance functions for vectorial data. <i>Spatial Statistics</i> , 2022, 47, 100562.	1.9	7
31	The <i>cgeostat</i> Software for Analyzing Complex-Valued Random Fields. <i>Journal of Statistical Software</i> , 2017, 79, .	3.7	6
32	Geostatistics and the Role of Variogram in Time Series Analysis: A Critical Review. <i>Contributions To Statistics</i> , 2013, , 47-75.	0.2	5
33	A dynamic model for age-specific fertility rates in Italy. <i>Spatial Statistics</i> , 2016, 17, 105-120.	1.9	5
34	Computational advances for spatio-temporal multivariate environmental models. <i>Computational Statistics</i> , 2022, 37, 651-670.	1.5	5
35	New spatio-temporal complex covariance functions for vectorial data through positive mixtures. <i>Stochastic Environmental Research and Risk Assessment</i> , 0, , 1.	4.0	5
36	On the use of different metrics for assessing complex pattern reproductions. <i>Journal of Applied Statistics</i> , 2013, 40, 808-822.	1.3	4

#	ARTICLE	IF	CITATIONS
37	Time varying complex covariance functions for oceanographic data. <i>Spatial Statistics</i> , 2021, 42, 100426.	1.9	4
38	Modeling Ocean Currents Through Complex Random Fields Indexed in Time. <i>Mathematical Geosciences</i> , 2021, 53, 999-1025.	2.4	4
39	Spatio-temporal modeling of an environmental trivariate vector combining air and soil measurements from Ireland. <i>Spatial Statistics</i> , 2021, 42, 100455.	1.9	4
40	Convergence of realization-based statistics to model-based statistics for the LU unconditional simulation algorithm: some numerical tests. <i>Stochastic Environmental Research and Risk Assessment</i> , 2002, 16, 333-341.	4.0	3
41	A Multilevel Multinomial Model for the Dynamics of Graduates Employment in Italy. <i>Social Indicators Research</i> , 2019, 146, 149-168.	2.7	3
42	Some space-time models: an application to NO ₂ pollution in an urban area. , 2000, , 271-276.		2
43	Radon Predictions with <i>Geographical Information System</i> Covariates: From Spatial Sampling to Modeling. <i>Geographical Analysis</i> , 2017, 49, 215-235.	3.5	1
44	Using multilevel models to evaluate the attitude of separate waste collection in young people. <i>Metron</i> , 0, , 1.	1.2	1
45	Radon Risk Analysis Through Geostatistical Tools Implemented in a WebGIS. , 0, , .		1
46	PM 10 Time Series Analysis Through Geostatistical Techniques. , 2015, , .		0
47	Spatial Autocorrelation. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1-9.	0.1	0