

# MarÃ-a Dolores Ruiz-Medina

## List of Publications by Year in descending order

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112  
papers

1,291  
citations

489802

18  
h-index

536525

29  
g-index

114  
all docs

114  
docs citations

114  
times ranked

521  
citing authors

#	ARTICLE	IF	CITATIONS
1	Infinite-dimensional Divergence Information Analysis. <i>Studies in Systems, Decision and Control</i> , 2023, , 147-157.	0.8	1
2	Spatial Cox processes in an infinite-dimensional framework. <i>Test</i> , 2022, 31, 175-203.	0.7	5
3	Bayesian surface regression versus spatial spectral nonparametric curve regression. <i>Spatial Statistics</i> , 2022, 50, 100604.	0.9	0
4	A spatial functional count model for heterogeneity analysis in time. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 1825-1849.	1.9	1
5	COVID-19 mortality analysis from soft-data multivariate curve regression and machine learning. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 2659-2678.	1.9	12
6	Prediction of air pollutants PM10 by ARBX(1) processes. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 1721-1736.	1.9	7
7	Increasing domain asymptotics for the first Minkowski functional of spherical random fields. <i>Theory of Probability and Mathematical Statistics</i> , 2019, 97, 127-149.	0.3	3
8	Dynamical multiple regression in function spaces, under kernel regressors, with ARH(1) errors. <i>Test</i> , 2019, 28, 943-968.	0.7	1
9	Strongly consistent autoregressive predictors in abstract Banach spaces. <i>Journal of Multivariate Analysis</i> , 2019, 170, 186-201.	0.5	11
10	A note on strong-consistency of componentwise ARH(1) predictors. <i>Statistics and Probability Letters</i> , 2019, 145, 224-228.	0.4	1
11	Log-Gaussian Cox processes in infinite-dimensional spaces. <i>Theory of Probability and Mathematical Statistics</i> , 2018, 95, 173-193.	0.3	0
12	Spatial-depth functional estimation of ocean temperature from non-separable covariance models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 39-51.	1.9	2
13	Asymptotic properties of a component-wise ARH(1) plug-in predictor. <i>Journal of Multivariate Analysis</i> , 2017, 155, 12-34.	0.5	7
14	Rosenblatt distribution subordinated to Gaussian random fields with long-range dependence. <i>Stochastic Analysis and Applications</i> , 2017, 35, 144-177.	0.9	12
15	Non-central limit theorems for random fields subordinated to gamma-correlated random fields. <i>Bernoulli</i> , 2017, 23, .	0.7	2
16	Asymptotic properties of parameter estimates for random fields with tapered data. <i>Electronic Journal of Statistics</i> , 2017, 11, .	0.4	7
17	Detecting hidden periodicities for models with cyclical errors. <i>Statistics and Its Interface</i> , 2017, 10, 107-118.	0.2	1
18	Space-Time Fractional Stochastic Equations on Regular Bounded Open Domains. <i>Fractional Calculus and Applied Analysis</i> , 2016, 19, 1161-1199.	1.2	20

#	ARTICLE	IF	CITATIONS
19	Fractional-In-Time and Multifractional-In-Space Stochastic Partial Differential Equations. Fractional Calculus and Applied Analysis, 2016, 19, 1434-1459.	1.2	11
20	Plug-in prediction intervals for a special class of standard ARH(1) processes. Journal of Multivariate Analysis, 2016, 146, 138-150.	0.5	3
21	Moment and Bayesian wavelet regression from spatially correlated functional data. Stochastic Environmental Research and Risk Assessment, 2016, 30, 523-557.	1.9	5
22	Consistency of the plug-in functional predictor of the Ornstein-Uhlenbeck process in Hilbert and Banach spaces. Statistics and Probability Letters, 2016, 117, 12-22.	0.4	5
23	Wavelet nonparametric estimation from strong spatial correlated high-dimensional data. Spatial Statistics, 2016, 18, 363-385.	0.9	1
24	Functional analysis of variance for Hilbert-valued multivariate fixed effect models. Statistics, 2016, 50, 689-715.	0.3	5
25	New compactly supported spatiotemporal covariance functions from SPDEs. Statistical Methods and Applications, 2016, 25, 125-141.	0.7	4
26	On a class of minimum contrast estimators for Gegenbauer random fields. Test, 2015, 24, 657-680.	0.7	9
27	Wavelet-Based Semiparametric Estimation of Ocean Surface Temperature. Mathematical Geosciences, 2015, 47, 149-171.	1.4	3
28	Comments on: Comparing and selecting spatial predictors using local criteria. Test, 2015, 24, 45-46.	0.7	0
29	Estimation of harmonic component in regression with cyclically dependent errors. Statistics, 2015, 49, 156-186.	0.3	18
30	Maximum-Likelihood Asymptotic Inference for Autoregressive Hilbertian Processes. Methodology and Computing in Applied Probability, 2015, 17, 207-222.	0.7	0
31	Least-Squares Estimation of Multifractional Random Fields in a Hilbert-Valued Context. Journal of Optimization Theory and Applications, 2015, 167, 888-911.	0.8	2
32	Equivalence of Gaussian measures of multivariate random fields. Stochastic Environmental Research and Risk Assessment, 2015, 29, 325-334.	1.9	11
33	A Central Limit Result in the Wavelet Domain for Minimum Contrast Estimation of Fractal Random Fields. Theory of Probability and Its Applications, 2014, 58, 458-486.	0.1	0
34	Gegenbauer random fields. Random Operators and Stochastic Equations, 2014, 22, 1-16.	0.2	5
35	Functional time series analysis of spatio-temporal epidemiological data. Stochastic Environmental Research and Risk Assessment, 2014, 28, 943-954.	1.9	20
36	Spatial functional normal mixed effect approach for curve classification. Advances in Data Analysis and Classification, 2014, 8, 257-285.	0.9	7

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37	Bayesian estimation in a high dimensional parameter framework. <i>Electronic Journal of Statistics</i> , 2014, 8, .	0.4	6
38	Integration of spatial functional interaction in the extrapolation of ocean surface temperature anomalies due to global warming. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 22, 27-39.	1.4	12
39	Wavelet-Based Estimation of Anisotropic Spatiotemporal Long-Range Dependence. <i>Stochastic Analysis and Applications</i> , 2013, 31, 359-380.	0.9	2
40	Macroscaling Limit Theorems for Filtered Spatiotemporal Random Fields. <i>Stochastic Analysis and Applications</i> , 2013, 31, 460-508.	0.9	11
41	Heterogeneous Spatial Dynamical Regression in a Hilbert-Valued Context. <i>Stochastic Analysis and Applications</i> , 2013, 31, 509-527.	0.9	4
42	Limit theorems for weighted nonlinear transformations of Gaussian stationary processes with singular spectra. <i>Annals of Probability</i> , 2013, 41, .	0.8	30
43	New challenges in spatial and spatiotemporal functional statistics for high-dimensional data. <i>Spatial Statistics</i> , 2012, 1, 82-91.	0.9	16
44	Random Fields with Multifractional Regularity Order on Heterogenous Fractal Domains. <i>Stochastic Analysis and Applications</i> , 2012, 30, 849-864.	0.9	1
45	Wavelet-RKHS-based functional statistical classification. <i>Advances in Data Analysis and Classification</i> , 2012, 6, 201-217.	0.9	10
46	Spatial functional prediction from spatial autoregressive Hilbertian processes. <i>Environmetrics</i> , 2012, 23, 119-128.	0.6	34
47	Local wavelet-based functional classification of gene expression data. <i>Biometrical Journal</i> , 2012, 54, 75-93.	0.6	5
48	Spatial autoregressive functional plug-in prediction of ocean surface temperature. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 335-344.	1.9	27
49	Minimum Contrast Parameter Estimation for Fractal Random Fields Based on the Wavelet Periodogram. <i>Communications in Statistics - Theory and Methods</i> , 2011, 40, 3599-3613.	0.6	3
50	Fractional Elliptic, Hyperbolic and Parabolic Random Fields. <i>Electronic Journal of Probability</i> , 2011, 16, .	0.5	17
51	Entropy-based correlated shrinkage of spatial random processes. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 389-402.	1.9	3
52	Spatial autoregressive and moving average Hilbertian processes. <i>Journal of Multivariate Analysis</i> , 2011, 102, 292-305.	0.5	41
53	The Dagum and auxiliary covariance families: Towards reconciling two-parameter models that separate fractal dimension and the Hurst effect. <i>Probabilistic Engineering Mechanics</i> , 2011, 26, 259-268.	1.3	15
54	Computing functional estimators of spatiotemporal long-range dependence parameters in the spectral-wavelet domain. <i>Journal of Statistical Planning and Inference</i> , 2011, 141, 2417-2427.	0.4	6

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55	Multifractal Random Systems on Fractal Domains. Understanding Complex Systems, 2011, , 357-378.	0.3	0
56	Functional maximum-likelihood estimation of ARH(p) models. Stochastic Environmental Research and Risk Assessment, 2010, 24, 131-146.	1.9	21
57	Spatiotemporal filtering from fractal spatial functional data sequence. Stochastic Environmental Research and Risk Assessment, 2010, 24, 527-538.	1.9	8
58	Multifractal Markov Processes in Heterogeneous Domains. Stochastic Analysis and Applications, 2010, 29, 15-47.	0.9	6
59	Spatial Scalings for Randomly Initialized Heat and Burgers Equations with Quadratic Potentials. Stochastic Analysis and Applications, 2010, 28, 303-321.	0.9	3
60	Functional denoising and reconstruction of fractal image sequences. Random Operators and Stochastic Equations, 2009, 17, .	0.2	0
61	Multi-spectral decomposition of functional autoregressive models. Stochastic Environmental Research and Risk Assessment, 2009, 23, 289-297.	1.9	19
62	Gaussian Scenario for the Heat Equation with Quadratic Potential and Weakly Dependent Data with Applications. Methodology and Computing in Applied Probability, 2008, 10, 595-620.	0.7	5
63	Comments on: Assessing probabilistic forecasts of multivariate quantities, with an application to ensemble predictions of surface winds. Test, 2008, 17, 236-237.	0.7	0
64	Spatio-temporal modeling of environmental and health processes. Stochastic Environmental Research and Risk Assessment, 2008, 22, 1-2.	1.9	13
65	Multifractality in space-time statistical models. Stochastic Environmental Research and Risk Assessment, 2008, 22, 81-86.	1.9	14
66	Spatiotemporal random fields associated with stochastic fractional Helmholtz and heat equations. Stochastic Environmental Research and Risk Assessment, 2008, 22, 3-13.	1.9	8
67	Semiparametric estimation of spatial long-range dependence. Journal of Statistical Planning and Inference, 2008, 138, 1479-1495.	0.4	13
68	Parameter Estimation of Self-Similar Spatial Covariogram Models. Communications in Statistics - Theory and Methods, 2008, 37, 1011-1023.	0.6	2
69	Spectral-Marginal-Based Estimation of Spatiotemporal Long-Range Dependence. Communications in Statistics - Theory and Methods, 2008, 38, 103-114.	0.6	6
70	Functional estimation of spatiotemporal heterogeneities. Environmetrics, 2007, 18, 775-792.	0.6	7
71	Kalman filtering from POP-based diagonalization of ARH(1). Computational Statistics and Data Analysis, 2007, 51, 4994-5008.	0.7	11
72	Wavelet-vaguelette decomposition of spatiotemporal random fields. Stochastic Environmental Research and Risk Assessment, 2007, 21, 273-281.	1.9	7

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73	Estimation of intrinsic processes affected by additive fractal noise. <i>Journal of Multivariate Analysis</i> , 2006, 97, 1361-1381.	0.5	10
74	Scaling Laws for the Multidimensional Burgers Equation with Quadratic External Potential. <i>Journal of Statistical Physics</i> , 2006, 124, 191-205.	0.5	17
75	Spatiotemporal generation of long-range dependence models and estimation. <i>Environmetrics</i> , 2006, 17, 139-146.	0.6	8
76	Strongly dependent Gaussian scenarios for the Burgers turbulence problem with quadratic external potential. <i>Random Operators and Stochastic Equations</i> , 2006, 14, .	0.2	2
77	Spatial and Spatiotemporal Karhunen-Loève-Type Representations on Fractal Domains. <i>Stochastic Analysis and Applications</i> , 2006, 24, 195-219.	0.9	7
78	Multifractional Probabilistic Laws. , 2006, , 143-153.		0
79	Fractional kinetic equations driven by Gaussian or infinitely divisible noise. <i>Advances in Applied Probability</i> , 2005, 37, 366-392.	0.4	8
80	Fractional kinetic equations driven by Gaussian or infinitely divisible noise. <i>Advances in Applied Probability</i> , 2005, 37, 366-392.	0.4	19
81	Fractional random fields associated with stochastic fractional heat equations. <i>Advances in Applied Probability</i> , 2005, 37, 108-133.	0.4	13
82	Diffusion on multifractals. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 63, e2043-e2056.	0.6	16
83	A study on sensitivity of spatial sampling designs to a priori discretization schemes. <i>Environmental Modelling and Software</i> , 2005, 20, 891-902.	1.9	5
84	Generalized approaches to spatial sampling design. <i>Environmetrics</i> , 2005, 16, 523-534.	0.6	13
85	Joint estimation of spatial deformation and blurring in environmental data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005, 19, 1-7.	1.9	8
86	Fractional random fields associated with stochastic fractional heat equations. <i>Advances in Applied Probability</i> , 2005, 37, 108-133.	0.4	56
87	Fractional Generalized Random Fields of Variable Order. <i>Stochastic Analysis and Applications</i> , 2004, 22, 775-799.	0.9	57
88	FRACTIONAL RANDOM FIELDS ON DOMAINS WITH FRACTAL BOUNDARY. <i>Infinite Dimensional Analysis, Quantum Probability and Related Topics</i> , 2004, 07, 395-417.	0.3	15
89	Wavelet-based functional reconstruction and extrapolation of fractional random fields. <i>Test</i> , 2004, 13, 417-444.	0.7	3
90	Fractional-order regularization and wavelet approximation to the inverse estimation problem for random fields. <i>Journal of Multivariate Analysis</i> , 2003, 85, 192-216.	0.5	24

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91	Functional stochastic modeling and prediction of spatiotemporal processes. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	8
92	Fractional Generalized Random Fields on Bounded Domains. Stochastic Analysis and Applications, 2003, 21, 465-492.	0.9	44
93	Multiscale estimation of processes related to the fractional Black-Scholes equation. Computational Statistics, 2003, 18, 401-415.	0.8	1
94	Spatio-temporal filtering using wavelets. Stochastic Environmental Research and Risk Assessment, 2002, 16, 241-266.	1.9	19
95	DIFFERENTIAL REPRESENTATION AND MARKOV PROPERTY OF GENERALIZED RANDOM FIELDS. Stochastic Analysis and Applications, 2001, 19, 481-498.	0.9	4
96	Stochastic fractional-order differential models with fractal boundary conditions. Statistics and Probability Letters, 2001, 54, 47-60.	0.4	25
97	Scaling limit solution of a fractional Burgers equation. Stochastic Processes and Their Applications, 2001, 93, 285-300.	0.4	23
98	Application of Hilbert-Space Methods to Random Field Modelling and Estimation. American Journal of Mathematical and Management Sciences, 2001, 21, 263-282.	0.6	0
99	Fractional diffusion and fractional heat equation. , 2000, 32, 1077-1099.		47
100	Fractional diffusion and fractional heat equation. Advances in Applied Probability, 2000, 32, 1077-1099.	0.4	57
101	The Wiener-Hopf integral equation for fractional Riesz-Bessel motion. ANZIAM Journal, 2000, 42, 41-54.	0.3	2
102	Covariance factorisation and abstract representation of generalised random fields. Bulletin of the Australian Mathematical Society, 2000, 62, 319-334.	0.3	9
103	Estimation and filtering of fractional generalised random fields. Journal of the Australian Mathematical Society Series A Pure Mathematics and Statistics, 2000, 69, 336-361.	0.3	17
104	Possible long-range dependence in fractional random fields. Journal of Statistical Planning and Inference, 1999, 80, 95-110.	0.4	111
105	Multi-resolution approximation to the stochastic inverse problem. Advances in Applied Probability, 1999, 31, 1039-1057.	0.4	2
106	Multi-resolution approximation to the stochastic inverse problem. Advances in Applied Probability, 1999, 31, 1039-1057.	0.4	22
107	Long-range dependence and second-order intermittency of two dimensional turbulence. Environmental Modelling and Software, 1998, 13, 233-238.	1.9	10
108	Two-parameter diffusions random fields. Stochastic Analysis and Applications, 1998, 16, 391-402.	0.9	2

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109	A series expansion approach to the inverse problem. Journal of Applied Probability, 1998, 35, 371-382.	0.4	3
110	A series expansion approach to the inverse problem. Journal of Applied Probability, 1998, 35, 371-382.	0.4	5
111	Orthogonal representations of random fields and an application to geophysics data. Journal of Applied Probability, 1997, 34, 458-476.	0.4	2
112	On the orthogonal representation of generalized random fields. Statistics and Probability Letters, 1997, 31, 145-153.	0.4	8