

Stefano Tarantola

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

8,279
citations

257357

24
h-index

414303

32
g-index

40
all docs

40
docs citations

40
times ranked

8423
citing authors

#	ARTICLE	IF	CITATIONS
1	Variance based sensitivity analysis of model output. Design and estimator for the total sensitivity index. <i>Computer Physics Communications</i> , 2010, 181, 259-270.	3.0	2,138
2	Detecting vegetation leaf water content using reflectance in the optical domain. <i>Remote Sensing of Environment</i> , 2001, 77, 22-33.	4.6	828
3	Designing a spectral index to estimate vegetation water content from remote sensing data: Part 1. <i>Remote Sensing of Environment</i> , 2002, 82, 188-197.	4.6	564
4	Sensitivity Analysis for Chemical Models. <i>Chemical Reviews</i> , 2005, 105, 2811-2828.	23.0	555
5	Sensitivity analysis practices: Strategies for model-based inference. <i>Reliability Engineering and System Safety</i> , 2006, 91, 1109-1125.	5.1	432
6	On the Relative Importance of Input Factors in Mathematical Models. <i>Journal of the American Statistical Association</i> , 2002, 97, 702-709.	1.8	378
7	Uncertainty and sensitivity analysis: tools for GIS-based model implementation. <i>International Journal of Geographical Information Science</i> , 2001, 15, 415-437.	2.2	244
8	The Future of Sensitivity Analysis: An essential discipline for systems modeling and policy support. <i>Environmental Modelling and Software</i> , 2021, 137, 104954.	1.9	209
9	Sensitivity analysis of spatial models. <i>International Journal of Geographical Information Science</i> , 2009, 23, 151-168.	2.2	202
10	Sensitivity and uncertainty analysis in spatial modelling based on GIS. <i>Agriculture, Ecosystems and Environment</i> , 2000, 81, 71-79.	2.5	199
11	Variance-based sensitivity indices for models with dependent inputs. <i>Reliability Engineering and System Safety</i> , 2012, 107, 115-121.	5.1	171
12	Trends in sensitivity analysis practice in the last decade. <i>Science of the Total Environment</i> , 2016, 568, 666-670.	3.9	163
13	Moment Independent Importance Measures: New Results and Analytical Test Cases. <i>Risk Analysis</i> , 2011, 31, 404-428.	1.5	132
14	Application of global sensitivity analysis of model output to building thermal simulations. <i>Building Simulation</i> , 2008, 1, 290-302.	3.0	82
15	Sensitivity Analysis for Hydraulic Models. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 959-969.	0.7	78
16	Sensitivity analysis and uncertainty estimation for tephra dispersal models. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	75
17	Update 1 of: Sensitivity Analysis for Chemical Models. <i>Chemical Reviews</i> , 2012, 112, PR1-PR21.	23.0	73
18	Uncertainty and global sensitivity analysis of road transport emission estimates. <i>Atmospheric Environment</i> , 2004, 38, 6609-6620.	1.9	72

#	ARTICLE	IF	CITATIONS
19	Non-parametric methods for global sensitivity analysis of model output with dependent inputs. Environmental Modelling and Software, 2015, 72, 173-183.	1.9	66
20	Winding Stairs: A sampling tool to compute sensitivity indices. Statistics and Computing, 2000, 10, 187-196.	0.8	57
21	A comparison of two sampling methods for global sensitivity analysis. Computer Physics Communications, 2012, 183, 1061-1072.	3.0	46
22	Scenario and parametric uncertainty in GESAMAC: A methodological study in nuclear waste disposal risk assessment. Computer Physics Communications, 1999, 117, 142-155.	3.0	43
23	Sensitivity analysis techniques applied to a system of hyperbolic conservation laws. Reliability Engineering and System Safety, 2012, 107, 157-170.	5.1	34
24	Variance-based sensitivity analysis of a wind risk model - Model behaviour and lessons for forest modelling. Environmental Modelling and Software, 2017, 87, 84-109.	1.9	30
25	A new estimator for sensitivity analysis of model output: An application to the e-business readiness composite indicator. Reliability Engineering and System Safety, 2006, 91, 1135-1141.	5.1	22
26	Modelling wind risk to Eucalyptus globulus (Labill.) stands. Forest Ecology and Management, 2016, 365, 159-173.	1.4	22
27	Evaluation of MARS modeling technique for sensitivity analysis of model output. Procedia, Social and Behavioral Sciences, 2010, 2, 7737-7738.	0.5	17
28	Variance-Based Sensitivity Analysis: Theory and Estimation Algorithms. , 2017, , 1217-1239.		13
29	NUSS-RF: stochastic sampling-based tool for nuclear data sensitivity and uncertainty quantification. Journal of Nuclear Science and Technology, 2015, 52, 1000-1007.	0.7	11
30	Sensitivity Analysis for Chemical Models. ChemInform, 2005, 36, no.	0.1	8
31	Sensitivity Analysis: A Necessary Ingredient for Measuring the Quality of a Teaching Activity Index. Social Indicators Research, 2017, 131, 931-946.	1.4	8
32	Sensitivity analysis for reliable design verification of nuclear turbosets. Reliability Engineering and System Safety, 2011, 96, 391-397.	5.1	7
33	Sensitivity Analysis Methods. , 0, , 259-284.		1
34	Metamodelling and Global Sensitivity Analysis of Models with Dependent Variables. , 2011, , .		1