Stefano Tarantola

List of Publications by Year
in descending order

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	The Future of Sensitivity Analysis: An essential discipline for systems modeling and policy support. Environmental Modelling and Software, 2021, 137, 104954.	1.9	209
2	Sensitivity Analysis: A Necessary Ingredient for Measuring the Quality of a Teaching Activity Index. Social Indicators Research, 2017, 131, 931-946.	1.4	8
3	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
4	Variance-Based Sensitivity Analysis: Theory and Estimation Algorithms. , 2017, , 1217-1239.		13
5	Trends in sensitivity analysis practice in the last decade. Science of the Total Environment, 2016, 568, 666-670.	3.9	163
6	Modelling wind risk to Eucalyptus globulus (Labill.) stands. Forest Ecology and Management, 2016, 365, 159-173.	1.4	22
7	Non-parametric methods for global sensitivity analysis of model output with dependent inputs. Environmental Modelling and Software, 2015, 72, 173-183.	1.9	66
8	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
9	Variance-based sensitivity indices for models with dependent inputs. Reliability Engineering and System Safety, 2012, 107, 115-121.	5.1	171
10	Sensitivity analysis techniques applied to a system of hyperbolic conservation laws. Reliability Engineering and System Safety, 2012, 107, 157-170.	5.1	34
11	Update 1 of: Sensitivity Analysis for Chemical Models. Chemical Reviews, 2012, 112, PR1-PR21.	23.0	73
12	A comparison of two sampling methods for global sensitivity analysis. Computer Physics Communications, 2012, 183, 1061-1072.	3.0	46
13	Metamodelling and Global Sensitivity Analysis of Models with Dependent Variables. , 2011, , .		1
14	Moment Independent Importance Measures: New Results and Analytical Test Cases. Risk Analysis, 2011, 31, 404-428.	1.5	132
15	Sensitivity analysis for reliable design verification of nuclear turbosets. Reliability Engineering and System Safety, 2011, 96, 391-397.	5.1	7
16	Evaluation of MARS modeling technique for sensitivity analysis of model output. Procedia, Social and Behavioral Sciences, 2010, 2, 7737-7738.	0.5	17
17	Variance based sensitivity analysis of model output. Design and estimator for the total sensitivity index. Computer Physics Communications, 2010, 181, 259-270.	3.0	2,138
18	Sensitivity analysis of spatial models. International Journal of Geographical Information Science, 2009, 23, 151-168.	2.2	202

#	Article	IF	Citations
19	Sensitivity Analysis for Hydraulic Models. Journal of Hydraulic Engineering, 2009, 135, 959-969.	0.7	78
20	Application of global sensitivity analysis of model output to building thermal simulations. Building Simulation, 2008, 1, 290-302.	3.0	82
21	Sensitivity analysis and uncertainty estimation for tephra dispersal models. Journal of Geophysical Research, 2008, 113, .	3.3	75
22	Sensitivity analysis practices: Strategies for model-based inference. Reliability Engineering and System Safety, 2006, 91, 1109-1125.	5.1	432
23	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
24	Sensitivity Analysis for Chemical Models. ChemInform, 2005, 36, no.	0.1	8
25	Sensitivity Analysis for Chemical Models. Chemical Reviews, 2005, 105, 2811-2828.	23.0	555
26	Uncertainty and global sensitivity analysis of road transport emission estimates. Atmospheric Environment, 2004, 38, 6609-6620.	1.9	72
27	On the Relative Importance of Input Factors in Mathematical Models. Journal of the American Statistical Association, 2002, 97, 702-709.	1.8	378
28	Designing a spectral index to estimate vegetation water content from remote sensing data: Part 1. Remote Sensing of Environment, 2002, 82, 188-197.	4.6	564
29	Detecting vegetation leaf water content using reflectance in the optical domain. Remote Sensing of Environment, 2001, 77, 22-33.	4.6	828
30	Uncertainty and sensitivity analysis: tools for GIS-based model implementation. International Journal of Geographical Information Science, 2001, 15, 415-437.	2.2	244
31	Sensitivity and uncertainty analysis in spatial modelling based on GIS. Agriculture, Ecosystems and Environment, 2000, 81, 71-79.	2.5	199
32	Winding Stairs: A sampling tool to compute sensitivity indices. Statistics and Computing, 2000, 10, 187-196.	0.8	57
33	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
34	Sensitivity Analysis Methods. , 0, , 259-284.		1