

JÃ©rÃ©me Morio

List of Publications by Year in descending order

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72
papers

1,052
citations

430874

18
h-index

434195

31
g-index

76
all docs

76
docs citations

76
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Kriging-based adaptive Importance Sampling algorithms for rare event estimation. Structural Safety, 2013, 44, 1-10.	5.3	119
2	Influence of the order of diattenuator, retarder, and polarizer in polar decomposition of Mueller matrices. Optics Letters, 2004, 29, 2234.	3.3	105
3	Global and local sensitivity analysis methods for a physical system. European Journal of Physics, 2011, 32, 1577-1583.	0.6	102
4	Shannon entropy of partially polarized and partially coherent light with Gaussian fluctuations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 3036.	1.5	62
5	A survey of rare event simulation methods for static input-output models. Simulation Modelling Practice and Theory, 2014, 49, 287-304.	3.8	52
6	Trajectory clustering of air traffic flows around airports. Aerospace Science and Technology, 2019, 84, 776-781.	4.8	52
7	Biobjective planning of an active debris removal mission. Acta Astronautica, 2013, 84, 182-188.	3.2	43
8	Extreme quantile estimation with nonparametric adaptive importance sampling. Simulation Modelling Practice and Theory, 2012, 27, 76-89.	3.8	30
9	Non-parametric adaptive importance sampling for the probability estimation of a launcher impact position. Reliability Engineering and System Safety, 2011, 96, 178-183.	8.9	29
10	Variance based sensitivity analysis for Monte Carlo and importance sampling reliability assessment with Gaussian processes. Structural Safety, 2021, 93, 102116.	5.3	29
11	Reliability-based sensitivity estimators of rare event probability in the presence of distribution parameter uncertainty. Reliability Engineering and System Safety, 2018, 178, 164-178.	8.9	28
12	Information Theory-Based Approach for Contrast Analysis in Polarimetric and/or Interferometric SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2185-2196.	6.3	26
13	Influence of input PDF parameters of a model on a failure probability estimation. Simulation Modelling Practice and Theory, 2011, 19, 2244-2255.	3.8	25
14	Revising Measurement-Based Probabilistic Timing Analysis. , 2017, , .		25
15	Evaluation of failure probability under parameter epistemic uncertainty: application to aerospace system reliability assessment. Aerospace Science and Technology, 2017, 69, 526-537.	4.8	25
16	An overview of importance splitting for rare event simulation. European Journal of Physics, 2010, 31, 1295-1303.	0.6	23
17	Reliability-oriented sensitivity analysis in presence of data-driven epistemic uncertainty. Reliability Engineering and System Safety, 2021, 215, 107733.	8.9	22
18	Conflict probability estimation between aircraft with dynamic importance splitting. Safety Science, 2013, 51, 94-100.	4.9	20

#	ARTICLE	IF	CITATIONS
19	A Characterization of Shannon Entropy and Bhattacharyya Measure of Contrast in Polarimetric and Interferometric SAR Image. Proceedings of the IEEE, 2009, 97, 1097-1108.	21.3	19
20	Rare Event Probability Estimation in the Presence of Epistemic Uncertainty on Input Probability Distribution Parameters. Methodology and Computing in Applied Probability, 2016, 18, 197-216.	1.2	18
21	Importance sampling: how to approach the optimal density?. European Journal of Physics, 2010, 31, L41-L48.	0.6	12
22	Adaptive coupling of reduced basis modeling and Kriging based active learning methods for reliability analyses. Reliability Engineering and System Safety, 2020, 196, 106771.	8.9	12
23	Improvement of the cross-entropy method in high dimension for failure probability estimation through a one-dimensional projection without gradient estimation. Reliability Engineering and System Safety, 2021, 216, 107991.	8.9	12
24	Polarimetric and Interferometric SAR Image Partition Into Statistically Homogeneous Regions Based on the Minimization of the Stochastic Complexity. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3599-3609.	6.3	11
25	Adaptive interacting particle system algorithm for aircraft conflict probability estimation. Aerospace Science and Technology, 2016, 55, 431-438.	4.8	11
26	A nonparametric importance sampling estimator for moment independent importance measures. Reliability Engineering and System Safety, 2019, 187, 3-16.	8.9	10
27	Aerospace System Analysis and Optimization in Uncertainty. Springer Optimization and Its Applications, 2020, , .	0.9	10
28	Missile target accuracy estimation with importance splitting. Aerospace Science and Technology, 2013, 25, 40-44.	4.8	9
29	Recommendations for the tuning of rare event probability estimators. Reliability Engineering and System Safety, 2015, 133, 68-78.	8.9	9
30	Estimation of a launch vehicle stage fallout zone with parametric and non-parametric importance sampling algorithms in presence of uncertain input distributions. Aerospace Science and Technology, 2016, 52, 95-101.	4.8	7
31	An island particle algorithm for rare event analysis. Reliability Engineering and System Safety, 2016, 149, 63-75.	8.9	7
32	Optimisation of interacting particle systems for rare event estimation. Computational Statistics and Data Analysis, 2013, 66, 117-128.	1.2	6
33	A biobjective branch and bound procedure for planning spatial missions. Aerospace Science and Technology, 2018, 73, 269-277.	4.8	6
34	Probabilistic analysis of cache memories and cache memories impacts on multi-core embedded systems. , 2016, , .		5
35	Simultaneous estimation of complementary moment independent and reliability-oriented sensitivity measures. Mathematics and Computers in Simulation, 2021, 182, 721-737.	4.4	5
36	Drone Ground Impact Footprints with Importance Sampling: Estimation and Sensitivity Analysis. Applied Sciences (Switzerland), 2021, 11, 3871.	2.5	5

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37	Estimating separation distance loss probability between aircraft in uncontrolled airspace in simulation. <i>Safety Science</i> , 2012, 50, 995-1004.	4.9	4
38	Methods for high-dimensional and computationally intensive models. , 2016, , 109-136.		4
39	Synthetic Aircraft Trajectories Generated with Multivariate Density Models. , 2021, 13, .		4
40	Sampling technique for launcher impact safety zone estimation. <i>Acta Astronautica</i> , 2010, 66, 736-741.	3.2	3
41	Tuning of adaptive interacting particle system for rare event probability estimation. <i>Simulation Modelling Practice and Theory</i> , 2016, 66, 36-49.	3.8	3
42	Comparison of Methods to Calculate the Dark Current Nonuniformity. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 1345-1354.	2.0	3
43	Estimation of high-order moment-independent importance measures for Shapley value analysis. <i>Applied Mathematical Modelling</i> , 2020, 88, 396-417.	4.2	3
44	Onboard sensor orientation analysis with kriging method. <i>Acta Astronautica</i> , 2009, 64, 374-381.	3.2	2
45	Plug-in estimation of d-dimensional density minimum volume set of a rare event in a complex system. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2012, 226, 337-345.	0.7	2
46	Extreme density level set estimation for input-output functions via the adaptive splitting technique. <i>Journal of Computational Science</i> , 2015, 6, 40-46.	2.9	2
47	Nonparametric Importance Sampling Techniques for Sensitivity Analysis and Reliability Assessment of a Launcher Stage Fallout. <i>Springer Optimization and Its Applications</i> , 2019, , 59-86.	0.9	2
48	Overview of Problem Formulations and Optimization Algorithms in the Presence of Uncertainty. <i>Springer Optimization and Its Applications</i> , 2020, , 147-183.	0.9	2
49	Optimisation of Segregation Distances between Electric Cable Bundles Embedded in a Structure. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2132.	2.5	2
50	Spatial object classification by radar measurements. <i>Aerospace Science and Technology</i> , 2010, 14, 259-265.	4.8	1
51	A combined importance splitting and sampling algorithm for rare event estimation. , 2013, , .		1
52	Improvement of satellite conflict prediction reliability through use of the adaptive splitting technique. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2014, 228, 77-85.	1.3	1
53	Analysis of extreme aircraft wake vortex circulations. , 2016, , 177-181.		1
54	Probabilistic Safety Analysis of the Collision Between a Space Debris and a Satellite with an Island Particle Algorithm. <i>Springer Optimization and Its Applications</i> , 2016, , 443-457.	0.9	1

#	ARTICLE	IF	CITATIONS
55	Reliability Analysis. Springer Optimization and Its Applications, 2020, , 119-146.	0.9	1
56	Radar measurements analysis for spatial object classification. International Journal of Intelligent Defence Support Systems, 2009, 2, 91.	0.1	0
57	Some ideas for bias and variance reduction in the splitting algorithm for diffusion processes. Journal of Computational Science, 2015, 11, 58-68.	2.9	0
58	Introduction to rare event probability estimation. , 2016, , 1-2.		0
59	Basics of probability and statistics. , 2016, , 5-32.		0
60	The formalism of rare event probability estimation in complex systems. , 2016, , 33-38.		0
61	Simulation techniques. , 2016, , 45-75.		0
62	Statistical techniques. , 2016, , 77-85.		0
63	Reliability based approaches. , 2016, , 87-108.		0
64	Special developments for time-variant systems. , 2016, , 137-153.		0
65	Estimation of launch vehicle stage fallout zone. , 2016, , 157-167.		0
66	Estimation of collision probability between space debris and satellites. , 2016, , 169-175.		0
67	Estimation of conflict probability between aircraft. , 2016, , 183-188.		0
68	Synthesis of rare event probability estimation methods for inputâ€“output systems. , 2016, , 191-193.		0
69	Synthesis for time-variant systems. , 2016, , 195-196.		0
70	ESTIMATION OF MOMENT INDEPENDENT IMPORTANCE MEASURES USING A COPULA AND MAXIMUM ENTROPY FRAMEWORK. , 2018, , .		0
71	Uncertainty Propagation and Sensitivity Analysis. Springer Optimization and Its Applications, 2020, , 69-117.	0.9	0
72	Uncertainty Characterization and Modeling. Springer Optimization and Its Applications, 2020, , 31-65.	0.9	0