

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	Optimisation of Segregation Distances between Electric Cable Bundles Embedded in a Structure. Applied Sciences (Switzerland), 2022, 12, 2132.	2.5	2
2	Simultaneous estimation of complementary moment independent and reliability-oriented sensitivity measures. Mathematics and Computers in Simulation, 2021, 182, 721-737.	4.4	5
3	Drone Ground Impact Footprints with Importance Sampling: Estimation and Sensitivity Analysis. Applied Sciences (Switzerland), 2021, 11, 3871.	2.5	5
4	Reliability-oriented sensitivity analysis in presence of data-driven epistemic uncertainty. Reliability Engineering and System Safety, 2021, 215, 107733.	8.9	22
5	Variance based sensitivity analysis for Monte Carlo and importance sampling reliability assessment with Gaussian processes. Structural Safety, 2021, 93, 102116.	5.3	29
6	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
7	Synthetic Aircraft Trajectories Generated with Multivariate Density Models. , 2021, 13, .		4
8	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
9	Estimation of high-order moment-independent importance measures for Shapley value analysis. Applied Mathematical Modelling, 2020, 88, 396-417.	4.2	3
10	Aerospace System Analysis and Optimization in Uncertainty. Springer Optimization and Its Applications, 2020, , .	0.9	10
11	Uncertainty Propagation and Sensitivity Analysis. Springer Optimization and Its Applications, 2020, , 69-117.	0.9	0
12	Reliability Analysis. Springer Optimization and Its Applications, 2020, , 119-146.	0.9	1
13	Overview of Problem Formulations and Optimization Algorithms in the Presence of Uncertainty. Springer Optimization and Its Applications, 2020, , 147-183.	0.9	2
14	Uncertainty Characterization and Modeling. Springer Optimization and Its Applications, 2020, , 31-65.	0.9	0
15	Nonparametric Importance Sampling Techniques for Sensitivity Analysis and Reliability Assessment of a Launcher Stage Fallout. Springer Optimization and Its Applications, 2019, , 59-86.	0.9	2
16	Trajectory clustering of air traffic flows around airports. Aerospace Science and Technology, 2019, 84, 776-781.	4.8	52
17	A nonparametric importance sampling estimator for moment independent importance measures. Reliability Engineering and System Safety, 2019, 187, 3-16.	8.9	10
18	A biobjective branch and bound procedure for planning spatial missions. Aerospace Science and Technology, 2018, 73, 269-277.	4.8	6

#	ARTICLE	IF	CITATIONS
19	ESTIMATION OF MOMENT INDEPENDENT IMPORTANCE MEASURES USING A COPULA AND MAXIMUM ENTROPY FRAMEWORK. , 2018, , .		0
20	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
21	Comparison of Methods to Calculate the Dark Current Nonuniformity. IEEE Transactions on Nuclear Science, 2018, 65, 1345-1354.	2.0	3
22	Revising Measurement-Based Probabilistic Timing Analysis. , 2017, , .		25
23	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
24	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
25	Adaptive interacting particle system algorithm for aircraft conflict probability estimation. Aerospace Science and Technology, 2016, 55, 431-438.	4.8	11
26	Probabilistic analysis of cache memories and cache memories impacts on multi-core embedded systems. , 2016, , .		5
27	Tuning of adaptive interacting particle system for rare event probability estimation. Simulation Modelling Practice and Theory, 2016, 66, 36-49.	3.8	3
28	Introduction to rare event probability estimation. , 2016, , 1-2.		0
29	Basics of probability and statistics. , 2016, , 5-32.		0
30	The formalism of rare event probability estimation in complex systems. , 2016, , 33-38.		0
31	Simulation techniques. , 2016, , 45-75.		0
32	Statistical techniques. , 2016, , 77-85.		0
33	Reliability based approaches. , 2016, , 87-108.		0
34	Methods for high-dimensional and computationally intensive models. , 2016, , 109-136.		4
35	Special developments for time-variant systems. , 2016, , 137-153.		0
36	Estimation of launch vehicle stage fallout zone. , 2016, , 157-167.		0

#	ARTICLE	IF	CITATIONS
37	Estimation of collision probability between space debris and satellites. , 2016, , 169-175.		0
38	Analysis of extreme aircraft wake vortex circulations. , 2016, , 177-181.		1
39	Estimation of conflict probability between aircraft. , 2016, , 183-188.		0
40	Synthesis of rare event probability estimation methods for input–output systems. , 2016, , 191-193.		0
41	Synthesis for time-variant systems. , 2016, , 195-196.		0
42	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
43	An island particle algorithm for rare event analysis. Reliability Engineering and System Safety, 2016, 149, 63-75.	8.9	7
44	Probabilistic Safety Analysis of the Collision Between a Space Debris and a Satellite with an Island Particle Algorithm. Springer Optimization and Its Applications, 2016, , 443-457.	0.9	1
45	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
46	Extreme density level set estimation for input–output functions via the adaptive splitting technique. Journal of Computational Science, 2015, 6, 40-46.	2.9	2
47	Recommendations for the tuning of rare event probability estimators. Reliability Engineering and System Safety, 2015, 133, 68-78.	8.9	9
48	Improvement of satellite conflict prediction reliability through use of the adaptive splitting technique. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 77-85.	1.3	1
49	A survey of rare event simulation methods for static input–output models. Simulation Modelling Practice and Theory, 2014, 49, 287-304.	3.8	52
50	A combined importance splitting and sampling algorithm for rare event estimation. , 2013, , .		1
51	Biobjective planning of an active debris removal mission. Acta Astronautica, 2013, 84, 182-188.	3.2	43
52	Optimisation of interacting particle systems for rare event estimation. Computational Statistics and Data Analysis, 2013, 66, 117-128.	1.2	6
53	Missile target accuracy estimation with importance splitting. Aerospace Science and Technology, 2013, 25, 40-44.	4.8	9
54	Kriging-based adaptive Importance Sampling algorithms for rare event estimation. Structural Safety, 2013, 44, 1-10.	5.3	119

#	ARTICLE	IF	CITATIONS
55	Conflict probability estimation between aircraft with dynamic importance splitting. Safety Science, 2013, 51, 94-100.	4.9	20
56	Plug-in estimation of d-dimensional density minimum volume set of a rare event in a complex system. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2012, 226, 337-345.	0.7	2
57	Extreme quantile estimation with nonparametric adaptive importance sampling. Simulation Modelling Practice and Theory, 2012, 27, 76-89.	3.8	30
58	Estimating separation distance loss probability between aircraft in uncontrolled airspace in simulation. Safety Science, 2012, 50, 995-1004.	4.9	4
59	Global and local sensitivity analysis methods for a physical system. European Journal of Physics, 2011, 32, 1577-1583.	0.6	102
60	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
61	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
62	Sampling technique for launcher impact safety zone estimation. Acta Astronautica, 2010, 66, 736-741.	3.2	3
63	Spatial object classification by radar measurements. Aerospace Science and Technology, 2010, 14, 259-265.	4.8	1
64	Importance sampling: how to approach the optimal density?. European Journal of Physics, 2010, 31, L41-L48.	0.6	12
65	An overview of importance splitting for rare event simulation. European Journal of Physics, 2010, 31, 1295-1303.	0.6	23
66	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
67	Onboard sensor orientation analysis with kriging method. Acta Astronautica, 2009, 64, 374-381.	3.2	2
68	Radar measurements analysis for spatial object classification. International Journal of Intelligent Defence Support Systems, 2009, 2, 91.	0.1	0
69	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
70	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
71	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
72	Influence of the order of diattenuator, retarder, and polarizer in polar decomposition of Mueller matrices. Optics Letters, 2004, 29, 2234.	3.3	105