

# JÃ©rÃ©me Morio

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

1,052  
citations

489802

18  
h-index

488211

31  
g-index

76  
all docs

76  
docs citations

76  
times ranked

929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimisation of Segregation Distances between Electric Cable Bundles Embedded in a Structure. Applied Sciences (Switzerland), 2022, 12, 2132.	1.3	2
2	Simultaneous estimation of complementary moment independent and reliability-oriented sensitivity measures. Mathematics and Computers in Simulation, 2021, 182, 721-737.	2.4	5
3	Drone Ground Impact Footprints with Importance Sampling: Estimation and Sensitivity Analysis. Applied Sciences (Switzerland), 2021, 11, 3871.	1.3	5
4	Reliability-oriented sensitivity analysis in presence of data-driven epistemic uncertainty. Reliability Engineering and System Safety, 2021, 215, 107733.	5.1	22
5	Variance based sensitivity analysis for Monte Carlo and importance sampling reliability assessment with Gaussian processes. Structural Safety, 2021, 93, 102116.	2.8	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.	5.1	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.	5.1	12
9	Estimation of high-order moment-independent importance measures for Shapley value analysis. Applied Mathematical Modelling, 2020, 88, 396-417.	2.2	3
10	Aerospace System Analysis and Optimization in Uncertainty. Springer Optimization and Its Applications, 2020, , .	0.6	10
11	Uncertainty Propagation and Sensitivity Analysis. Springer Optimization and Its Applications, 2020, , 69-117.	0.6	0
12	Reliability Analysis. Springer Optimization and Its Applications, 2020, , 119-146.	0.6	1
13	Overview of Problem Formulations and Optimization Algorithms in the Presence of Uncertainty. Springer Optimization and Its Applications, 2020, , 147-183.	0.6	2
14	Uncertainty Characterization and Modeling. Springer Optimization and Its Applications, 2020, , 31-65.	0.6	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.	0.6	2
16	Trajectory clustering of air traffic flows around airports. Aerospace Science and Technology, 2019, 84, 776-781.	2.5	52
17	A nonparametric importance sampling estimator for moment independent importance measures. Reliability Engineering and System Safety, 2019, 187, 3-16.	5.1	10
18	A biobjective branch and bound procedure for planning spatial missions. Aerospace Science and Technology, 2018, 73, 269-277.	2.5	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.	5.1	28
21	Comparison of Methods to Calculate the Dark Current Nonuniformity. IEEE Transactions on Nuclear Science, 2018, 65, 1345-1354.	1.2	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.	2.5	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.	0.7	18
25	Adaptive interacting particle system algorithm for aircraft conflict probability estimation. Aerospace Science and Technology, 2016, 55, 431-438.	2.5	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.	2.2	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.	2.5	7
43	An island particle algorithm for rare event analysis. Reliability Engineering and System Safety, 2016, 149, 63-75.	5.1	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.	0.6	1
45	Some ideas for bias and variance reduction in the splitting algorithm for diffusion processes. Journal of Computational Science, 2015, 11, 58-68.	1.5	0
46	Extreme density level set estimation for input–output functions via the adaptive splitting technique. Journal of Computational Science, 2015, 6, 40-46.	1.5	2
47	Recommendations for the tuning of rare event probability estimators. Reliability Engineering and System Safety, 2015, 133, 68-78.	5.1	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.	0.7	1
49	A survey of rare event simulation methods for static input–output models. Simulation Modelling Practice and Theory, 2014, 49, 287-304.	2.2	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.	1.7	43
52	Optimisation of interacting particle systems for rare event estimation. Computational Statistics and Data Analysis, 2013, 66, 117-128.	0.7	6
53	Missile target accuracy estimation with importance splitting. Aerospace Science and Technology, 2013, 25, 40-44.	2.5	9
54	Kriging-based adaptive Importance Sampling algorithms for rare event estimation. Structural Safety, 2013, 44, 1-10.	2.8	119

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55	Conflict probability estimation between aircraft with dynamic importance splitting. <i>Safety Science</i> , 2013, 51, 94-100.	2.6	20
56	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.	0.6	2
57	Extreme quantile estimation with nonparametric adaptive importance sampling. <i>Simulation Modelling Practice and Theory</i> , 2012, 27, 76-89.	2.2	30
58	Estimating separation distance loss probability between aircraft in uncontrolled airspace in simulation. <i>Safety Science</i> , 2012, 50, 995-1004.	2.6	4
59	Global and local sensitivity analysis methods for a physical system. <i>European Journal of Physics</i> , 2011, 32, 1577-1583.	0.3	102
60	Influence of input PDF parameters of a model on a failure probability estimation. <i>Simulation Modelling Practice and Theory</i> , 2011, 19, 2244-2255.	2.2	25
61	Non-parametric adaptive importance sampling for the probability estimation of a launcher impact position. <i>Reliability Engineering and System Safety</i> , 2011, 96, 178-183.	5.1	29
62	Sampling technique for launcher impact safety zone estimation. <i>Acta Astronautica</i> , 2010, 66, 736-741.	1.7	3
63	Spatial object classification by radar measurements. <i>Aerospace Science and Technology</i> , 2010, 14, 259-265.	2.5	1
64	Importance sampling: how to approach the optimal density?. <i>European Journal of Physics</i> , 2010, 31, L41-L48.	0.3	12
65	An overview of importance splitting for rare event simulation. <i>European Journal of Physics</i> , 2010, 31, 1295-1303.	0.3	23
66	A Characterization of Shannon Entropy and Bhattacharyya Measure of Contrast in Polarimetric and Interferometric SAR Image. <i>Proceedings of the IEEE</i> , 2009, 97, 1097-1108.	16.4	19
67	Onboard sensor orientation analysis with kriging method. <i>Acta Astronautica</i> , 2009, 64, 374-381.	1.7	2
68	Radar measurements analysis for spatial object classification. <i>International Journal of Intelligent Defence Support Systems</i> , 2009, 2, 91.	0.1	0
69	Information Theory-Based Approach for Contrast Analysis in Polarimetric and/or Interferometric SAR Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 2185-2196.	2.7	26
70	Polarimetric and Interferometric SAR Image Partition Into Statistically Homogeneous Regions Based on the Minimization of the Stochastic Complexity. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 3599-3609.	2.7	11
71	Shannon entropy of partially polarized and partially coherent light with Gaussian fluctuations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 3036.	0.8	62
72	Influence of the order of diattenuator, retarder, and polarizer in polar decomposition of Mueller matrices. <i>Optics Letters</i> , 2004, 29, 2234.	1.7	105