Richard V Field

List of Publications by Year
in descending order

37	459	840776 11	713466 21
papers	citations	h-index	g-index

37	37	37	432
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient Generalized Boundary Detection Using a Sliding Information Distance. IEEE Transactions on Signal Processing, 2020, 68, 6394-6401.	5.3	1
2	Generalized Boundary Detection Using Compression-based Analytics. , 2019, , .		3
3	Reordering Genomic Sequences for Enhanced Classification via Compression Analytics. , 2019, , .		2
4	Compression Analytics for Classification and Anomaly Detection Within Network Communication. IEEE Transactions on Information Forensics and Security, 2019, 14, 1366-1376.	6.9	14
5	Probability Distribution of von Mises Stress in the Presence of Pre-load. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 165-179.	0.5	0
6	Efficient Transfer Learning for Neural Network Language Models. , 2018, , .		1
7	Temporal Anomaly Detection in Social Media. , 2017, , .		1
8	Estimating users' mode transition functions and activity levels from social media. , 2017, , .		0
9	Comparison of a Turbulent Boundary Layer Pressure Fluctuation Model to Hypersonic Cone Measurements. , 2016, , .		12
10	On data collection, graph construction, and sampling in Twitter. , 2016, , .		3
11	Bayesian methods for characterizing unknown parameters of material models. Applied Mathematical Modelling, 2016, 40, 6395-6411.	4.2	12
12	Predicting laser weld reliability with stochastic reducedâ€orderâ€‰models. International Journal for Numerical Methods in Engineering, 2015, 103, 914-936.	2.8	23
13	Direct numerical simulations in solid mechanics for understanding the macroscale effects of microscale material variability. Computer Methods in Applied Mechanics and Engineering, 2015, 287, 262-289.	6.6	34
14	A method for analysis of linear dynamic systems driven by stationary non-Gaussian noise with applications to turbulence-induced random vibration. Applied Mathematical Modelling, 2014, 38, 336-354.	4.2	9
15	A two-step method for analysis of linear systems with uncertain parameters driven by Gaussian noise. Probabilistic Engineering Mechanics, 2013, 34, 200-210.	2.7	1
16	An algorithm for on-the-fly generation of samples of non-stationary Gaussian processes based on a sampling theorem. Monte Carlo Methods and Applications, 2013, .	0.8	2
17	Level cut Gaussian random field models for transitions from laminar to turbulent flow. Probabilistic Engineering Mechanics, 2012, 28, 91-102.	2.7	3
18	A method for the efficient construction and sampling of vector-valued translation random fields. Probabilistic Engineering Mechanics, 2012, 29, 79-91.	2.7	13

#	Article	IF	Citations
19	A Poisson random field model for intermittent phenomena with application to laminar-turbulent transition and material microstructure. Applied Mathematical Modelling, 2011, 35, 1142-1156.	4.2	6
20	Modeling of atmospheric temperature fluctuations by translations of oscillatory random processes with application to spacecraft atmospheric re-entry. Probabilistic Engineering Mechanics, 2011, 26, 231-239.	2.7	6
21	Predicting Fracture in Micrometer-Scale Polycrystalline Silicon MEMS Structures. Journal of Microelectromechanical Systems, 2011, 20, 922-932.	2.5	34
22	A Poisson Random Field Model for the Dynamics of Laminar-to-Turbulent Transition on a Flight Vehicle. , 2011, , .		1
23	Model selection for a class of stochastic processes or random fields with bounded range. Probabilistic Engineering Mechanics, 2009, 24, 331-342.	2.7	10
24	Reliability of dynamic systems under limited information. Probabilistic Engineering Mechanics, 2009, 24, 16-26.	2.7	5
25	A decision-theoretic method for surrogate model selection. Journal of Sound and Vibration, 2008, 311, 1371-1390.	3.9	3
26	A solution to the static frame validation challenge problem using Bayesian model selection. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 2540-2549.	6.6	9
27	Input and Design Optimization Under Uncertainty to Minimize the Impact Velocity of an Electrostatically Actuated MEMS Switch. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.6	11
28	Development and calibration of a stochastic dynamics model for the design of a MEMS inertial switch. Sensors and Actuators A: Physical, 2007, 134, 109-118.	4.1	30
29	Optimal stochastic models for spacecraft atmospheric re-entry. Journal of Sound and Vibration, 2006, 290, 991-1014.	3.9	10
30	Optimal design of sensor networks for vehicle detection, classification, and monitoring. Probabilistic Engineering Mechanics, 2006, 21, 305-316.	2.7	19
31	Modeling and Input Optimization Under Uncertainty for a Collection of RF MEMS Devices. , 2006, , .		4
32	On the accuracy of the polynomial chaos approximation. Probabilistic Engineering Mechanics, 2004, 19, 65-80.	2.7	125
33	AN EFFICIENT METHOD FOR CALCULATING R.M.S. VON MISES STRESS IN A RANDOM VIBRATION ENVIRONMENT. Journal of Sound and Vibration, 2000, 230, 393-410.	3.9	24
34	Estimating the Probability Distribution of von Mises Stress for Structures Undergoing Random Excitation. Journal of Vibration and Acoustics, Transactions of the ASME, 2000, 122, 42-48.	1.6	19
35	Closure to â€œDiscussion of â€˜Estimating the Probability Distribution of von Mises Stress for Structures Undergoing Random Excitationâ€™â€Šâ€•[ASME J. Vibr. Acoust., 122, No. 1, pp. 42â€“48 (2000)]. Journal of Vibration and Acoustics, Transactions of the ASME, 2000, 122, 336-337.	1.6	0
36	Investigating a reliable covariance control scheme for MDOF systems. , 1998, , .		0

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37	Computation of probabilistic stability measures for a controlled distributed parameter system. Probabilistic Engineering Mechanics, 1995, 10, 181-192.	2.7	9