

Yakov Ben-Haim

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138
papers

2,716
citations

26
h-index

49
g-index

163
ext. papers

3,076
ext. citations

3.1
avg, IF

5.45
L-index

#	Paper	IF	Citations
138	A non-probabilistic concept of reliability. <i>Structural Safety</i> , 1994 , 14, 227-245	4.9	259
137	ROBUST DECISION-MAKING UNDER SEVERE UNCERTAINTY FOR CONSERVATION MANAGEMENT 2005 , 15, 1471-1477		251
136	How Much Compensation is Enough? A Framework for Incorporating Uncertainty and Time Discounting When Calculating Offset Ratios for Impacted Habitat. <i>Restoration Ecology</i> , 2009 , 17, 470-478 ^{3.1}		172
135	Discussion on: A non-probabilistic concept of reliability. <i>Structural Safety</i> , 1995 , 17, 195-199	4.9	152
134	A non-probabilistic measure of reliability of linear systems based on expansion of convex models. <i>Structural Safety</i> , 1995 , 17, 91-109	4.9	122
133	Uncertainty, probability and information-gaps. <i>Reliability Engineering and System Safety</i> , 2004 , 85, 249-266	6.3	88
132	A new method for calibrating the pulse-height defect in solid state detectors. <i>Nuclear Instruments & Methods</i> , 1978 , 157, 325-331		87
131	Convex Models of Uncertainty in Radial Pulse Buckling of Shells. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1993 , 60, 683-688	2.7	86
130	Planning for robust reserve networks using uncertainty analysis. <i>Ecological Modelling</i> , 2006 , 199, 115-124		80
129	Decision making in an uncertain world: information-gap modeling in water resources management. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 1999 , 29, 506-517		57
128	Info-gap robust design with load and model uncertainties. <i>Journal of Sound and Vibration</i> , 2005 , 288, 551-570	3.9	52
127	Robust Reliability in the Mechanical Sciences 1996 ,		49
126	Maximum Structural Response Using Convex Models. <i>Journal of Engineering Mechanics - ASCE</i> , 1996 , 122, 325-333	2.4	46
125	Crack detection in beams by rankordering of eigenfrequency shifts. <i>Mechanical Systems and Signal Processing</i> , 1994 , 8, 81-91	7.8	43
124	What Makes a Good Decision? Robust Satisficing as a Normative Standard of Rational Decision Making. <i>Journal for the Theory of Social Behaviour</i> , 2011 , 41, 209-227	1.2	41
123	Non-Probabilistic Models of Uncertainty in the Nonlinear Buckling of Shells With General Imperfections: Theoretical Estimates of the Knockdown Factor. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1989 , 56, 403-410	2.7	41
122	Diffusion processes in the relaxed cross section for the reaction $107, 109\text{Ag}+20\text{Ne}$. <i>Nuclear Physics A</i> , 1976 , 258, 172-188	1.3	40

121	Info-gap robust-satisficing model of foraging behavior: do foragers optimize or satisfice?. <i>American Naturalist</i> , 2005 , 166, 633-41	3.7	38
120	Redundancy and Robustness, or When Is Redundancy Redundant?. <i>Journal of Structural Engineering</i> , 2011 , 137, 935-945	3	33
119	The graph model for conflict resolution with information-gap uncertainty in preferences. <i>Applied Mathematics and Computation</i> , 2002 , 126, 319-340	2.7	33
118	Robust rationality and decisions under severe uncertainty. <i>Journal of the Franklin Institute</i> , 2000 , 337, 171-199	4	32
117	Convex models of uncertainty: Applications and implications. <i>Erkenntnis</i> , 1994 , 41, 139-156	0.5	30
116	Dynamics of a thin cylindrical shell under impact with limited deterministic information on its initial imperfections. <i>Structural Safety</i> , 1990 , 8, 103-112	4.9	27
115	Robust Reliability of Structures. <i>Advances in Applied Mechanics</i> , 1997 , 1-41	10	26
114	Set-models of information-gap uncertainty: axioms and an inference scheme. <i>Journal of the Franklin Institute</i> , 1999 , 336, 1093-1117	4	26
113	Doing our best: optimization and the management of risk. <i>Risk Analysis</i> , 2012 , 32, 1326-32	3.9	24
112	Evaluation of neural network robust reliability using information-gap theory. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 1349-61		24
111	Robust Reliability of Projects with Activity-Duration Uncertainty. <i>Journal of Construction Engineering and Management - ASCE</i> , 1998 , 124, 125-132	4.2	24
110	Reconciling uncertain costs and benefits in Bayes nets for invasive species management. <i>Risk Analysis</i> , 2010 , 30, 277-84	3.9	23
109	Price-based vs. quantity-based environmental regulation under Knightian uncertainty: an info-gap robust satisficing perspective. <i>Journal of Environmental Management</i> , 2008 , 87, 443-9	7.9	22
108	Design certification with information-gap uncertainty. <i>Structural Safety</i> , 1999 , 21, 269-289	4.9	22
107	Robustness of risk maps and survey networks to knowledge gaps about a new invasive pest. <i>Risk Analysis</i> , 2010 , 30, 261-76	3.9	21
106	Why risk analysis is difficult, and some thoughts on how to proceed. <i>Risk Analysis</i> , 2012 , 32, 1638-46	3.9	20
105	A new multicriteria risk mapping approach based on a multiattribute frontier concept. <i>Risk Analysis</i> , 2013 , 33, 1694-709	3.9	20
104	Value-at-risk with info-gap uncertainty. <i>Journal of Risk Finance</i> , 2005 , 6, 388-403	1.1	20

103	Robustness, fidelity and prediction-looseness of models. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 227-244	2.4	19
102	Info-gap robustness for the correlation of tests and simulations of a non-linear transient. <i>Mechanical Systems and Signal Processing</i> , 2004 , 18, 1443-1467	7.8	19
101	Heterogeneous uncertainties in cholesterol management. <i>International Journal of Approximate Reasoning</i> , 2009 , 50, 1046-1065	3.6	18
100	USABILITY OF MATHEMATICAL MODELS IN MECHANICAL DECISION PROCESSES. <i>Mechanical Systems and Signal Processing</i> , 1998 , 12, 121-134	7.8	18
99	Managing Project Risks as Knowledge Gaps. <i>Project Management Journal</i> , 2006 , 37, 17-25	3.5	18
98	Info-gap theory and robust design of surveillance for invasive species: the case study of Barrow Island. <i>Journal of Environmental Management</i> , 2009 , 90, 2785-93	7.9	17
97	Detection capacity, information gaps and the design of surveillance programs for invasive forest pests. <i>Journal of Environmental Management</i> , 2010 , 91, 2535-46	7.9	17
96	INFO-GAP VALUE OF INFORMATION IN MODEL UPDATING. <i>Mechanical Systems and Signal Processing</i> , 2001 , 15, 457-474	7.8	17
95	Adaptive diagnosis of faults in elastic structures by static displacement measurement: The method of selective sensitivity. <i>Mechanical Systems and Signal Processing</i> , 1992 , 6, 85-96	7.8	17
94	Selective sensitivity in the frequency domain--I. Theory. <i>Mechanical Systems and Signal Processing</i> , 1993 , 7, 461-475	7.8	17
93	Selective sensitivity in the frequency domain--II. Applications. <i>Mechanical Systems and Signal Processing</i> , 1993 , 7, 551-574	7.8	16
92	Failure of an axially compressed beam with uncertain initial deflection of bounded strain energy. <i>International Journal of Engineering Science</i> , 1993 , 31, 989-1001	5.7	16
91	Reliability of Vibrating Structures with Uncertain Inputs. <i>The Shock and Vibration Digest</i> , 1998 , 30, 106-113		15
90	Info-Gap Economics 2010 ,		15
89	Fatigue Lifetime with Load Uncertainty Represented by Convex Model. <i>Journal of Engineering Mechanics - ASCE</i> , 1994 , 120, 445-462	2.4	14
88	An Algorithm for Failure Location in a Complex Network. <i>Nuclear Science and Engineering</i> , 1980 , 75, 191-199		14
87	Ne20-induced reactions with Cu and Au197 at 8.6 and 12.6 MeV/nucleon. <i>Physical Review C</i> , 1982 , 25, 300-312	2.7	13
86	Policy dilemma of innovation: An info-gap approach. <i>Ecological Economics</i> , 2013 , 85, 130-138	5.6	11

85	An info-gap approach to power and sample size calculations. <i>Environmetrics</i> , 2007 , 18, 189-203	1.3	11
84	Malfunction Isolation in Linear Stochastic Systems: Application to Nuclear Power Plants. <i>Nuclear Science and Engineering</i> , 1983 , 85, 156-166	1.2	11
83	Info-Gap Approach to Multiagent Search Under Severe Uncertainty. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 1032-1041	6.5	9
82	The Assay of Spatially Random Material 1985 ,		9
81	Info-gap forecasting and the advantage of sub-optimal models. <i>European Journal of Operational Research</i> , 2009 , 197, 203-213	5.6	8
80	Updating linear elastic models with modal selective sensitivity. <i>Inverse Problems in Science and Engineering</i> , 1995 , 2, 29-47		8
79	The Dilemmas of Wonderland 2018 ,		8
78	Decision Making in Times of Knightian Uncertainty: An Info-Gap Perspective. <i>Economics</i> , 2016 ,	1.3	8
77	Reasoned Decision Making Without Math? Adaptability and Robustness in Response to Surprise. <i>Risk Analysis</i> , 2015 , 35, 1911-8	3.9	6
76	Info-gap management of public health Policy for TB with HIV-prevalence and epidemiological uncertainty. <i>BMC Public Health</i> , 2012 , 12, 1091	4.1	6
75	Model Order Reduction by Selective Sensitivity. <i>AIAA Journal</i> , 1997 , 35, 557-562	2.1	6
74	Detecting unknown lateral forces on a bar by vibration measurement. <i>Journal of Sound and Vibration</i> , 1990 , 140, 13-29	3.9	6
73	Convex Models of Vehicle Response to Unknown but Bounded Terrain. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1991 , 58, 354-361	2.7	6
72	Indirect measurement of surface temperature and heat flux: Optimal design using convexity analysis. <i>International Journal of Heat and Mass Transfer</i> , 1987 , 30, 1673-1683	4.9	6
71	Structural design for earthquake resilience: Info-gap management of uncertainty. <i>Structural Safety</i> , 2017 , 69, 23-33	4.9	5
70	Computing robustness of FlexRay schedules to uncertainties in design parameters 2010 ,		5
69	Do we know how to set decision thresholds for diabetes?. <i>Medical Hypotheses</i> , 2009 , 73, 189-93	3.8	5
68	SEQUENTIAL TESTS BASED ON CONVEX MODELS OF UNCERTAINTY. <i>Mechanical Systems and Signal Processing</i> , 1998 , 12, 427-448	7.8	5

67	Identification of Certain Polynomial Nonlinear Structures by Adaptive Selectively-Sensitive Excitation. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1993 , 115, 246-255	1.6	5
66	Probabilistic interpretation of non-destructive assay of nuclear materials. <i>Annals of Nuclear Energy</i> , 1982 , 9, 1-9	1.7	5
65	Policy neutrality and uncertainty: an info-gap perspective. <i>Intelligence and National Security</i> , 2016 , 31, 978-992	0.8	4
64	Robust satisficing and the probability of survival. <i>International Journal of Systems Science</i> , 2014 , 45, 3-19	2.3	4
63	Robust satisficing voting: why are uncertain voters biased towards sincerity?. <i>Public Choice</i> , 2010 , 145, 265-280	1.4	4
62	Convex models for optimizing diagnosis of uncertain slender obstacles on surfaces. <i>Journal of Sound and Vibration</i> , 1992 , 152, 327-341	3.9	4
61	Probabilistic non-destructive assay of radioactive waste. <i>Annals of Nuclear Energy</i> , 1983 , 10, 57-64	1.7	4
60	Determination of spatial distribution in two-phase flow using scattered gamma radiation. <i>Nuclear Engineering and Design</i> , 1980 , 59, 433-441	1.8	4
59	Nondestructive Analysis of Radwaste Containers. <i>Nuclear Technology</i> , 1981 , 52, 121-128	1.4	4
58	Transitional features observed in the charge and angular distributions of deeply inelastic fragments produced in the reaction $^{181}\text{Ta} + 620 \text{ MeV } ^{86}\text{Kr}$. <i>Nuclear Physics A</i> , 1978 , 294, 225-245	1.3	4
57	Robust-Satisficing Behavior 2006 , 267-295		4
56	Diagnosis of changes in elastic boundary conditions in beams by adaptive vibrational testing. <i>Archive of Applied Mechanics</i> , 1992 , 62, 210-221	2.2	4
55	Info-Gap Decision Theory (IG) 2019 , 93-115		3
54	Robustness of model-based fault diagnosis: Decisions with information-gap models of uncertainty. <i>International Journal of Systems Science</i> , 2000 , 31, 1511-1518	2.3	3
53	Why the Best Engineers Should Study Humanities. <i>International Journal of Mechanical Engineering Education</i> , 2000 , 28, 195-200	0.6	3
52	The Measurement of Spatially Random Phenomena. <i>SIAM Journal on Applied Mathematics</i> , 1984 , 44, 1150-1163	3	3
51	A General Method for Optimal Design of Nondestructive Assay Systems. <i>Nuclear Science and Engineering</i> , 1984 , 88, 173-183	1.2	3
50	Home Bias in Financial Markets: Robust Satisficing with Info Gaps. <i>SSRN Electronic Journal</i> ,	1	3

49	Feedback for energy conservation: An info-gap approach. <i>Energy</i> , 2021 , 223, 119957	7.9	3
48	Does a better model yield a better argument? An info-gap analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20160890	2.4	2
47	Positivism and its limitations for strategic intelligence: a non-constructivist info-gap critique. <i>Intelligence and National Security</i> , 2018 , 1-14	0.8	2
46	Managing Technological and Economic Uncertainties in Design of Long-term Infrastructure Projects: An Info-gap Approach. <i>Procedia CIRP</i> , 2015 , 36, 59-63	1.8	2
45	Failure detection with likelihood ratio tests and uncertain probabilities: An info-gap application. <i>Mechanical Systems and Signal Processing</i> , 2014 , 48, 1-14	7.8	2
44	Interpreting null results from measurements with uncertain correlations: an info-gap approach. <i>Risk Analysis</i> , 2011 , 31, 78-85	3.9	2
43	Info-Gap Decision Theory for Engineering Design 2004 ,		2
42	Information-Gap Robustness for the Test-Analysis Correlation of a Nonlinear Transient Simulation 2002 ,		2
41	C.444. Must reliability be probabilistic ?. <i>Journal of Statistical Computation and Simulation</i> , 1996 , 55, 263-265		2
40	Optimizing multihypothesis diagnosis of control-actuator failures in linear systems. <i>Journal of Guidance, Control, and Dynamics</i> , 1990 , 13, 744-750	2.1	2
39	Convex Sets and Nondestructive Assay. <i>SIAM Journal on Algebraic and Discrete Methods</i> , 1985 , 6, 688-706		2
38	Design against Weathering of Iodine Filters. <i>Nuclear Technology</i> , 1980 , 47, 110-118	1.4	2
37	The design of nondestructive assay systems. <i>The International Journal of Applied Radiation and Isotopes</i> , 1983 , 34, 1291-1299		2
36	Info Gap Bayesian Classification 2008 ,		2
35	Data-based prediction under uncertainty: CDF-quantile distributions and info-gap robustness. <i>Journal of Mathematical Psychology</i> , 2018 , 87, 11-30	1.2	2
34	Cascading failures in hierarchical networks with unity of command: An info-gap analysis. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 41, 101291	4.5	1
33	Evaluating monetary policy rules under fundamental uncertainty: An info-gap approach. <i>Economic Modelling</i> , 2018 , 73, 55-70	3.4	1
32	Management of Invasive Species: Info-Gap Perspectives 266-286		1

31	Strategy selection: an info-gap methodology. <i>Defense and Security Analysis</i> , 2014 , 30, 106-119	0.7	1
30	Robust Resource Allocation: An Info-Gap Approach 2011 ,		1
29	Is your profiling strategy robust?. <i>Law, Probability and Risk</i> , 2011 , 10, 59-76	0.6	1
28	Modeling and design of a Hertzian contact: an info-gap approach. <i>Journal of Strain Analysis for Engineering Design</i> , 2012 , 47, 153-162	1.3	1
27	Info-Gap Approach to Multi Agent Search Under Severe Uncertainty 2009 ,		1
26	On Convex Models of Uncertainty for Small Initial Imperfections of Non-Linear Structures. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 1995 , 75, 901-908	1	1
25	Adaptive assay of radioactive pulmonary aerosols with an external detector. <i>International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes</i> , 1990 , 41, 989-93		1
24	Safety implications of stochastic analysis of nuclear reactor transients. <i>Annals of Nuclear Energy</i> , 1981 , 8, 497-507	1.7	1
23	Safety aspects of temperature fluctuations during nuclear reactor transients. <i>Progress in Nuclear Energy</i> , 1982 , 9, 337-347	2.3	1
22	Info-gap theory: An intuitive overview for engineering design and reliability assessment 2015 , 2711-2716		1
21	Robust reliability of structures with severely uncertain loads 1999 ,		1
20	Strategies for communicating information and disinformation in war 2021 , 58-71		1
19	Robust Policy in Times of Pandemic. <i>Intereconomics</i> , 2021 , 56, 108-112	1.4	1
18	Assessing Beyond a reasonable doubt—without probability: an info-gap perspective. <i>Law, Probability and Risk</i> , 2019 , 18, 77-95	0.6	1
17	Allocating Security Expenditures under Knightian Uncertainty: An Info-Gap Approach. <i>Defence and Peace Economics</i> , 2020 , 31, 830-850	1.3	1
16	Approval and plurality voting with uncertainty: Info-gap analysis of robustness. <i>Public Choice</i> , 2021 , 189, 239-256	1.4	1
15	Estimating an Uncertain Probability Density 2006 , 261-265		1
14	Non-Probabilistic Reliability of Mechanical Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1994 , 27, 281-286		0

13	An Info-Gap Approach to Policy Selection for Bio-terror Response. <i>Lecture Notes in Computer Science</i> , 2006 , 554-559	0.9	0
12	Info-gap decision theory and its potential applications in the clinic. <i>Personalized Medicine</i> , 2010 , 7, 1-3	2.2	
11	Sequential Adaptation in Estimating Elastic Boundary-Condition Influence Matrices. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1993 , 115, 370-378	1.6	
10	Correction for matrix effects in x-ray fluorescence analysis of finite media. <i>X-Ray Spectrometry</i> , 1980 , 9, 154-158	0.9	
9	Nonlinear Problems in Selectively Sensitive Identification of Structures 1993 , 204-221		
8	Robust Reliability of Mechanical Systems 1997 , 1253-1258		
7	Innovation Dilemmas, Design Optimization, and Info-Gaps. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 159-165	0.3	
6	Innovations and Info-Gaps: An Overview. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 263-271	0.3	
5	Linear Bounds on an Uncertain Non-Linear Oscillator: An Info-Gap Approach. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2011 , 3-14	0.3	
4	Some Directions for Research 1985 , 297-306		
3	Deterministic Design I: Conceptual Formulation 1985 , 17-84		
2	Robust-satisficing ethics in intelligence. <i>Intelligence and National Security</i> , 2021 , 36, 721-736	0.8	
1	Earthquake Vulnerability Reduction by Building a Robust Social-Emotional Preparedness Program. <i>Sustainability</i> , 2022 , 14, 5763	3.6	