

# Yakov Ben-Haim

## List of Publications by Year in Descending Order

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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	Earthquake Vulnerability Reduction by Building a Robust Social-Emotional Preparedness Program. <i>Sustainability</i> , <b>2022</b> , 14, 5763	3.6	
137	Strategies for communicating information and disinformation in war <b>2021</b> , 58-71		1
136	Robust Policy in Times of Pandemic. <i>Intereconomics</i> , <b>2021</b> , 56, 108-112	1.4	1
135	Robust-satisficing ethics in intelligence. <i>Intelligence and National Security</i> , <b>2021</b> , 36, 721-736	0.8	
134	Feedback for energy conservation: An info-gap approach. <i>Energy</i> , <b>2021</b> , 223, 119957	7.9	3
133	Approval and plurality voting with uncertainty: Info-gap analysis of robustness. <i>Public Choice</i> , <b>2021</b> , 189, 239-256	1.4	1
132	Allocating Security Expenditures under Knightian Uncertainty: An Info-Gap Approach. <i>Defence and Peace Economics</i> , <b>2020</b> , 31, 830-850	1.3	1
131	Cascading failures in hierarchical networks with unity of command: An info-gap analysis. <i>International Journal of Disaster Risk Reduction</i> , <b>2019</b> , 41, 101291	4.5	1
130	Info-Gap Decision Theory (IG) <b>2019</b> , 93-115		3
129	Assessing Beyond a reasonable doubt without probability: an info-gap perspective. <i>Law, Probability and Risk</i> , <b>2019</b> , 18, 77-95	0.6	1
128	Evaluating monetary policy rules under fundamental uncertainty: An info-gap approach. <i>Economic Modelling</i> , <b>2018</b> , 73, 55-70	3.4	1
127	Positivism and its limitations for strategic intelligence: a non-constructivist info-gap critique. <i>Intelligence and National Security</i> , <b>2018</b> , 1-14	0.8	2
126	The Dilemmas of Wonderland <b>2018</b> ,		8
125	Data-based prediction under uncertainty: CDF-quantile distributions and info-gap robustness. <i>Journal of Mathematical Psychology</i> , <b>2018</b> , 87, 11-30	1.2	2
124	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> , <b>2017</b> , 473, 20160890	2.4	2
123	Structural design for earthquake resilience: Info-gap management of uncertainty. <i>Structural Safety</i> , <b>2017</b> , 69, 23-33	4.9	5
122	Innovations and Info-Gaps: An Overview. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 263-271	0.3	

121	Policy neutrality and uncertainty: an info-gap perspective. <i>Intelligence and National Security</i> , <b>2016</b> , 31, 978-992	0.8	4
120	Innovation Dilemmas, Design Optimization, and Info-Gaps. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 159-165	0.3	
119	Decision Making in Times of Knightian Uncertainty: An Info-Gap Perspective. <i>Economics</i> , <b>2016</b> ,	1.3	8
118	Managing Technological and Economic Uncertainties in Design of Long-term Infrastructure Projects: An Info-gap Approach. <i>Procedia CIRP</i> , <b>2015</b> , 36, 59-63	1.8	2
117	Reasoned Decision Making Without Math? Adaptability and Robustness in Response to Surprise. <i>Risk Analysis</i> , <b>2015</b> , 35, 1911-8	3.9	6
116	Info-gap theory: An intuitive overview for engineering design and reliability assessment <b>2015</b> , 2711-2716		1
115	Robust satisficing and the probability of survival. <i>International Journal of Systems Science</i> , <b>2014</b> , 45, 3-19	2.3	4
114	Strategy selection: an info-gap methodology. <i>Defense and Security Analysis</i> , <b>2014</b> , 30, 106-119	0.7	1
113	Failure detection with likelihood ratio tests and uncertain probabilities: An info-gap application. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 48, 1-14	7.8	2
112	A new multicriteria risk mapping approach based on a multiattribute frontier concept. <i>Risk Analysis</i> , <b>2013</b> , 33, 1694-709	3.9	20
111	Policy dilemma of innovation: An info-gap approach. <i>Ecological Economics</i> , <b>2013</b> , 85, 130-138	5.6	11
110	Doing our best: optimization and the management of risk. <i>Risk Analysis</i> , <b>2012</b> , 32, 1326-32	3.9	24
109	Why risk analysis is difficult, and some thoughts on how to proceed. <i>Risk Analysis</i> , <b>2012</b> , 32, 1638-46	3.9	20
108	Info-gap management of public health Policy for TB with HIV-prevalence and epidemiological uncertainty. <i>BMC Public Health</i> , <b>2012</b> , 12, 1091	4.1	6
107	Robustness, fidelity and prediction-looseness of models. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2012</b> , 468, 227-244	2.4	19
106	Modeling and design of a Hertzian contact: an info-gap approach. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2012</b> , 47, 153-162	1.3	1
105	Interpreting null results from measurements with uncertain correlations: an info-gap approach. <i>Risk Analysis</i> , <b>2011</b> , 31, 78-85	3.9	2
104	What Makes a Good Decision? Robust Satisficing as a Normative Standard of Rational Decision Making. <i>Journal for the Theory of Social Behaviour</i> , <b>2011</b> , 41, 209-227	1.2	41

103	Robust Resource Allocation: An Info-Gap Approach <b>2011</b> ,		1
102	Is your profiling strategy robust?. <i>Law, Probability and Risk</i> , <b>2011</b> , 10, 59-76	0.6	1
101	Redundancy and Robustness, or When Is Redundancy Redundant?. <i>Journal of Structural Engineering</i> , <b>2011</b> , 137, 935-945	3	33
100	Linear Bounds on an Uncertain Non-Linear Oscillator: An Info-Gap Approach. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2011</b> , 3-14	0.3	
99	Info-Gap Approach to Multiagent Search Under Severe Uncertainty. <i>IEEE Transactions on Robotics</i> , <b>2010</b> , 26, 1032-1041	6.5	9
98	Computing robustness of FlexRay schedules to uncertainties in design parameters <b>2010</b> ,		5
97	Info-gap decision theory and its potential applications in the clinic. <i>Personalized Medicine</i> , <b>2010</b> , 7, 1-3	2.2	
96	Robust satisficing voting: why are uncertain voters biased towards sincerity?. <i>Public Choice</i> , <b>2010</b> , 145, 265-280	1.4	4
95	Detection capacity, information gaps and the design of surveillance programs for invasive forest pests. <i>Journal of Environmental Management</i> , <b>2010</b> , 91, 2535-46	7.9	17
94	Reconciling uncertain costs and benefits in Bayes nets for invasive species management. <i>Risk Analysis</i> , <b>2010</b> , 30, 277-84	3.9	23
93	Robustness of risk maps and survey networks to knowledge gaps about a new invasive pest. <i>Risk Analysis</i> , <b>2010</b> , 30, 261-76	3.9	21
92	Info-Gap Economics <b>2010</b> ,		15
91	Info-gap theory and robust design of surveillance for invasive species: the case study of Barrow Island. <i>Journal of Environmental Management</i> , <b>2009</b> , 90, 2785-93	7.9	17
90	Info-gap forecasting and the advantage of sub-optimal models. <i>European Journal of Operational Research</i> , <b>2009</b> , 197, 203-213	5.6	8
89	How Much Compensation is Enough? A Framework for Incorporating Uncertainty and Time Discounting When Calculating Offset Ratios for Impacted Habitat. <i>Restoration Ecology</i> , <b>2009</b> , 17, 470-478	3.1	172
88	Heterogeneous uncertainties in cholesterol management. <i>International Journal of Approximate Reasoning</i> , <b>2009</b> , 50, 1046-1065	3.6	18
87	Do we know how to set decision thresholds for diabetes?. <i>Medical Hypotheses</i> , <b>2009</b> , 73, 189-93	3.8	5
86	Info-Gap Approach to Multi Agent Search Under Severe Uncertainty <b>2009</b> ,		1

85	Price-based vs. quantity-based environmental regulation under Knightian uncertainty: an info-gap robust satisficing perspective. <i>Journal of Environmental Management</i> , <b>2008</b> , 87, 443-9	7.9	22
84	Info Gap Bayesian Classification <b>2008</b> ,		2
83	An info-gap approach to power and sample size calculations. <i>Environmetrics</i> , <b>2007</b> , 18, 189-203	1.3	11
82	Planning for robust reserve networks using uncertainty analysis. <i>Ecological Modelling</i> , <b>2006</b> , 199, 115-124		80
81	Evaluation of neural network robust reliability using information-gap theory. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 1349-61		24
80	Managing Project Risks as Knowledge Gaps. <i>Project Management Journal</i> , <b>2006</b> , 37, 17-25	3.5	18
79	Robust-Satisficing Behavior <b>2006</b> , 267-295		4
78	An Info-Gap Approach to Policy Selection for Bio-terror Response. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 554-559	0.9	0
77	Estimating an Uncertain Probability Density <b>2006</b> , 261-265		1
76	ROBUST DECISION-MAKING UNDER SEVERE UNCERTAINTY FOR CONSERVATION MANAGEMENT <b>2005</b> , 15, 1471-1477		251
75	Info-gap robust design with load and model uncertainties. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 288, 551-570	3.9	52
74	Info-gap robust-satisficing model of foraging behavior: do foragers optimize or satisfice?. <i>American Naturalist</i> , <b>2005</b> , 166, 633-41	3.7	38
73	Value-at-risk with info-gap uncertainty. <i>Journal of Risk Finance</i> , <b>2005</b> , 6, 388-403	1.1	20
72	Info-gap robustness for the correlation of tests and simulations of a non-linear transient. <i>Mechanical Systems and Signal Processing</i> , <b>2004</b> , 18, 1443-1467	7.8	19
71	Uncertainty, probability and information-gaps. <i>Reliability Engineering and System Safety</i> , <b>2004</b> , 85, 249-266		88
70	Info-Gap Decision Theory for Engineering Design <b>2004</b> ,		2
69	The graph model for conflict resolution with information-gap uncertainty in preferences. <i>Applied Mathematics and Computation</i> , <b>2002</b> , 126, 319-340	2.7	33
68	Information-Gap Robustness for the Test-Analysis Correlation of a Nonlinear Transient Simulation <b>2002</b> ,		2

67	INFO-GAP VALUE OF INFORMATION IN MODEL UPDATING. <i>Mechanical Systems and Signal Processing</i> , <b>2001</b> , 15, 457-474	7.8	17
66	Robust rationality and decisions under severe uncertainty. <i>Journal of the Franklin Institute</i> , <b>2000</b> , 337, 171-199	4	32
65	Robustness of model-based fault diagnosis: Decisions with information-gap models of uncertainty. <i>International Journal of Systems Science</i> , <b>2000</b> , 31, 1511-1518	2.3	3
64	Why the Best Engineers Should Study Humanities. <i>International Journal of Mechanical Engineering Education</i> , <b>2000</b> , 28, 195-200	0.6	3
63	Design certification with information-gap uncertainty. <i>Structural Safety</i> , <b>1999</b> , 21, 269-289	4.9	22
62	Set-models of information-gap uncertainty: axioms and an inference scheme. <i>Journal of the Franklin Institute</i> , <b>1999</b> , 336, 1093-1117	4	26
61	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> , <b>1999</b> , 29, 506-517		57
60	Robust reliability of structures with severely uncertain loads <b>1999</b> ,		1
59	USABILITY OF MATHEMATICAL MODELS IN MECHANICAL DECISION PROCESSES. <i>Mechanical Systems and Signal Processing</i> , <b>1998</b> , 12, 121-134	7.8	18
58	SEQUENTIAL TESTS BASED ON CONVEX MODELS OF UNCERTAINTY. <i>Mechanical Systems and Signal Processing</i> , <b>1998</b> , 12, 427-448	7.8	5
57	Robust Reliability of Projects with Activity-Duration Uncertainty. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>1998</b> , 124, 125-132	4.2	24
56	Reliability of Vibrating Structures with Uncertain Inputs. <i>The Shock and Vibration Digest</i> , <b>1998</b> , 30, 106-113		15
55	Model Order Reduction by Selective Sensitivity. <i>AIAA Journal</i> , <b>1997</b> , 35, 557-562	2.1	6
54	Robust Reliability of Structures. <i>Advances in Applied Mechanics</i> , <b>1997</b> , 1-41	10	26
53	Robust Reliability of Mechanical Systems <b>1997</b> , 1253-1258		
52	C.444. Must reliability be probabilistic ?. <i>Journal of Statistical Computation and Simulation</i> , <b>1996</b> , 55, 263-265		2
51	Maximum Structural Response Using Convex Models. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1996</b> , 122, 325-333	2.4	46
50	Robust Reliability in the Mechanical Sciences <b>1996</b> ,		49

49	On Convex Models of Uncertainty for Small Initial Imperfections of Non-Linear Structures. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>1995</b> , 75, 901-908	1	1
48	A non-probabilistic measure of reliability of linear systems based on expansion of convex models. <i>Structural Safety</i> , <b>1995</b> , 17, 91-109	4.9	122
47	Discussion on: A non-probabilistic concept of reliability. <i>Structural Safety</i> , <b>1995</b> , 17, 195-199	4.9	152
46	Updating linear elastic models with modal selective sensitivity. <i>Inverse Problems in Science and Engineering</i> , <b>1995</b> , 2, 29-47		8
45	Fatigue Lifetime with Load Uncertainty Represented by Convex Model. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1994</b> , 120, 445-462	2.4	14
44	Convex models of uncertainty: Applications and implications. <i>Erkenntnis</i> , <b>1994</b> , 41, 139-156	0.5	30
43	Crack detection in beams by rankordering of eigenfrequency shifts. <i>Mechanical Systems and Signal Processing</i> , <b>1994</b> , 8, 81-91	7.8	43
42	A non-probabilistic concept of reliability. <i>Structural Safety</i> , <b>1994</b> , 14, 227-245	4.9	259
41	Non-Probabilistic Reliability of Mechanical Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1994</b> , 27, 281-286		0
40	Convex Models of Uncertainty in Radial Pulse Buckling of Shells. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1993</b> , 60, 683-688	2.7	86
39	Identification of Certain Polynomial Nonlinear Structures by Adaptive Selectively-Sensitive Excitation. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>1993</b> , 115, 246-255	1.6	5
38	Sequential Adaptation in Estimating Elastic Boundary-Condition Influence Matrices. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1993</b> , 115, 370-378	1.6	
37	Selective sensitivity in the frequency domain--I. Theory. <i>Mechanical Systems and Signal Processing</i> , <b>1993</b> , 7, 461-475	7.8	17
36	Selective sensitivity in the frequency domain--II. Applications. <i>Mechanical Systems and Signal Processing</i> , <b>1993</b> , 7, 551-574	7.8	16
35	Failure of an axially compressed beam with uncertain initial deflection of bounded strain energy. <i>International Journal of Engineering Science</i> , <b>1993</b> , 31, 989-1001	5.7	16
34	Nonlinear Problems in Selectively Sensitive Identification of Structures <b>1993</b> , 204-221		
33	Adaptive diagnosis of faults in elastic structures by static displacement measurement: The method of selective sensitivity. <i>Mechanical Systems and Signal Processing</i> , <b>1992</b> , 6, 85-96	7.8	17
32	Convex models for optimizing diagnosis of uncertain slender obstacles on surfaces. <i>Journal of Sound and Vibration</i> , <b>1992</b> , 152, 327-341	3.9	4

31	Diagnosis of changes in elastic boundary conditions in beams by adaptive vibrational testing. <i>Archive of Applied Mechanics</i> , <b>1992</b> , 62, 210-221	2.2	4
30	Convex Models of Vehicle Response to Unknown but Bounded Terrain. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1991</b> , 58, 354-361	2.7	6
29	Dynamics of a thin cylindrical shell under impact with limited deterministic information on its initial imperfections. <i>Structural Safety</i> , <b>1990</b> , 8, 103-112	4.9	27
28	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> , <b>1990</b> , 41, 989-93		1
27	Detecting unknown lateral forces on a bar by vibration measurement. <i>Journal of Sound and Vibration</i> , <b>1990</b> , 140, 13-29	3.9	6
26	Optimizing multihypothesis diagnosis of control-actuator failures in linear systems. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1990</b> , 13, 744-750	2.1	2
25	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> , <b>1989</b> , 56, 403-410	2.7	41
24	Indirect measurement of surface temperature and heat flux: Optimal design using convexity analysis. <i>International Journal of Heat and Mass Transfer</i> , <b>1987</b> , 30, 1673-1683	4.9	6
23	Convex Sets and Nondestructive Assay. <i>SIAM Journal on Algebraic and Discrete Methods</i> , <b>1985</b> , 6, 688-706		2
22	The Assay of Spatially Random Material <b>1985</b> ,		9
21	Some Directions for Research <b>1985</b> , 297-306		
20	Deterministic Design I: Conceptual Formulation <b>1985</b> , 17-84		
19	The Measurement of Spatially Random Phenomena. <i>SIAM Journal on Applied Mathematics</i> , <b>1984</b> , 44, 1150-1163		3
18	A General Method for Optimal Design of Nondestructive Assay Systems. <i>Nuclear Science and Engineering</i> , <b>1984</b> , 88, 173-183	1.2	3
17	Probabilistic non-destructive assay of radioactive waste. <i>Annals of Nuclear Energy</i> , <b>1983</b> , 10, 57-64	1.7	4
16	Malfunction Isolation in Linear Stochastic Systems: Application to Nuclear Power Plants. <i>Nuclear Science and Engineering</i> , <b>1983</b> , 85, 156-166	1.2	11
15	The design of nondestructive assay systems. <i>The International Journal of Applied Radiation and Isotopes</i> , <b>1983</b> , 34, 1291-1299		2
14	Ne <sup>20</sup> -induced reactions with Cu and Au <sup>197</sup> at 8.6 and 12.6 MeV/nucleon. <i>Physical Review C</i> , <b>1982</b> , 25, 300-312	2.7	13



13	Safety aspects of temperature fluctuations during nuclear reactor transients. <i>Progress in Nuclear Energy</i> , <b>1982</b> , 9, 337-347	2.3	1
12	Probabilistic interpretation of non-destructive assay of nuclear materials. <i>Annals of Nuclear Energy</i> , <b>1982</b> , 9, 1-9	1.7	5
11	Nondestructive Analysis of Radwaste Containers. <i>Nuclear Technology</i> , <b>1981</b> , 52, 121-128	1.4	4
10	Safety implications of stochastic analysis of nuclear reactor transients. <i>Annals of Nuclear Energy</i> , <b>1981</b> , 8, 497-507	1.7	1
9	Design against Weathering of Iodine Filters. <i>Nuclear Technology</i> , <b>1980</b> , 47, 110-118	1.4	2
8	An Algorithm for Failure Location in a Complex Network. <i>Nuclear Science and Engineering</i> , <b>1980</b> , 75, 191-199		14
7	Correction for matrix effects in x-ray fluorescence analysis of finite media. <i>X-Ray Spectrometry</i> , <b>1980</b> , 9, 154-158	0.9	
6	Determination of spatial distribution in two-phase flow using scattered gamma radiation. <i>Nuclear Engineering and Design</i> , <b>1980</b> , 59, 433-441	1.8	4
5	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> , <b>1978</b> , 294, 225-245	1.3	4
4	A new method for calibrating the pulse-height defect in solid state detectors. <i>Nuclear Instruments &amp; Methods</i> , <b>1978</b> , 157, 325-331		87
3	Diffusion processes in the relaxed cross section for the reaction $^{107, 109}\text{Ag} + ^{20}\text{Ne}$ . <i>Nuclear Physics A</i> , <b>1976</b> , 258, 172-188	1.3	40
2	Management of Invasive Species: Info-Gap Perspectives 266-286		1
1	Home Bias in Financial Markets: Robust Satisficing with Info Gaps. <i>SSRN Electronic Journal</i> ,	1	3