David Rios Insua

List of Publications by Year
in descending order

104 papers	**1,969** citations	331259 **21** h-index
301761 **39** g-index	**121** all docs	**121** docs citations
121 times ranked	**1182** citing authors	

#	Article	IF	Citations
1	A framework for sensitivity analysis in discrete multi-objective decision-making. European Journal of Operational Research, 1991, 54, 176-190.	3.5	168
2	Adversarial Risk Analysis. Journal of the American Statistical Association, 2009, 104, 841-854.	1.8	168
3	Mixtures of Gamma Distributions With Applications. Journal of Computational and Graphical Statistics, 2001, 10, 440-454.	0.9	104
4	Issues in Bayesian Analysis of Neural Network Models. Neural Computation, 1998, 10, 749-770.	1.3	93
5	Sensitivity Analysis in Multi-objective Decision Making. Lecture Notes in Economics and Mathematical Systems, 1990, , .	0.3	82
6	Adversarial Risk Analysis for Counterterrorism Modeling. Risk Analysis, 2012, 32, 894-915.	1.5	77
7	Bayesian Robustness. Lecture Notes in Statistics, 2000, , 1-32.	0.1	63
8	Policy analysis and policy analytics. Annals of Operations Research, 2016, 236, 1-13.	2.6	59
9	Decision Analysis by Augmented Probability Simulation. Management Science, 1999, 45, 995-1007.	2.4	53
10	*e*-Participation and Decision Analysis. Decision Analysis, 2007, 4, 211-226.	1.2	50
11	A framework for participatory decision support using Pareto frontier visualization, goal identification and arbitration. European Journal of Operational Research, 2009, 199, 459-467.	3.5	41
12	Adversarial Risk Analysis: The Somali Pirates Case. Decision Analysis, 2012, 9, 86-95.	1.2	41
13	Robust Bayesian Analysis. Handbook of Statistics, 2005, , 623-667.	0.4	38
14	An Adversarial Risk Analysis Framework for Cybersecurity. Risk Analysis, 2021, 41, 16-36.	1.5	37
15	Bayesian analysis of M/Er/1 and M/H_k/1 queues. Queueing Systems, 1998, 30, 289-308.	0.6	32
16	Feedforward Neural Networks for Nonparametric Regression. Lecture Notes in Statistics, 1998, , 181-193.	0.1	32
17	Towards decision support for participatory democracy. Information Systems and E-Business Management, 2008, 6, 161-191.	2.2	27
18	Modeling Opponents in Adversarial Risk Analysis. Risk Analysis, 2016, 36, 742-755.	1.5	27

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19	Forecasting and assessing consequences of aviation safety occurrences. Safety Science, 2019, 111, 243-252.	2.6	26
20	Advances in Bayesian decision making in reliability. European Journal of Operational Research, 2020, 282, 1-18.	3.5	26
21	Assessing and Forecasting Cybersecurity Impacts. Decision Analysis, 2020, 17, 356-374.	1.2	24
22	Modeling External Risks in Project Management. Risk Analysis, 2007, 27, 961-978.	1.5	22
23	Adversarial classification: An adversarial risk analysis approach. International Journal of Approximate Reasoning, 2019, 113, 133-148.	1.9	22
24	AI in drug development: a multidisciplinary perspective. Molecular Diversity, 2021, 25, 1461-1479.	2.1	22
25	Joint association of physical activity and body mass index with cardiovascular risk: a nationwide population-based cross-sectional study. European Journal of Preventive Cardiology, 2022, 29, e50-e52.	0.8	22
26	Multicriteria e-negotiation systems for e-democracy. Journal of Multi-Criteria Decision Analysis, 2003, 12, 213-218.	1.0	20
27	Insider Threat Modeling: An Adversarial Risk Analysis Approach. IEEE Transactions on Information Forensics and Security, 2021, 16, 1131-1142.	4.5	19
28	On the foundations of decision making under partial information. Theory and Decision, 1992, 33, 83-100.	0.5	18
29	Bayesian Forecasting for Accident Proneness Evaluation. Scandinavian Actuarial Journal, 1999, 1999, 134-156.	1.0	17
30	On Bayesian forecasting of procurement delays: a case study. Applied Stochastic Models in Business and Industry, 2006, 22, 181-192.	0.9	17
31	Robustness issues under imprecise beliefs and preferences. Journal of Statistical Planning and Inference, 1994, 40, 383-389.	0.4	15
32	The operation of Lake Kariba: A multiobjective decision analysis. Journal of Multi-Criteria Decision Analysis, 1995, 4, 203-222.	1.0	15
33	Adversarial risk analysis for bi-agent influence diagrams: An algorithmic approach. European Journal of Operational Research, 2019, 273, 1085-1096.	3.5	15
34	Approximating nondominated sets in continuous multiobjective optimization problems. Naval Research Logistics, 2005, 52, 469-480.	1.4	13
35	Adversarial risk analysis under partial information. European Journal of Operational Research, 2020, 287, 306-316.	3.5	13
36	Decision support issues in automated driving systems. International Transactions in Operational Research, 2023, 30, 1216-1244.	1.8	13

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37	Uncertainty and robustness in planning and decision-making. International Journal of Systems Science, 2014, 45, 1-2.	3.7	12
38	To Fuel or Not to Fuel? Is that the Question?. Journal of the American Statistical Association, 2014, 109, 465-476.	1.8	12
39	Adversarial Risk Analysis for Urban Security Resource Allocation. Risk Analysis, 2016, 36, 727-741.	1.5	12
40	A Model for an Affective Non-Expensive Utility-Based Decision Agent. IEEE Transactions on Affective Computing, 2019, 10, 498-509.	5.7	12
41	Introduction to the special issue on sensitivity analysis. Journal of Multi-Criteria Decision Analysis, 1999, 8, 117-118.	1.0	11
42	Supporting Negotiations over Influence Diagrams. Decision Analysis, 2009, 6, 153-171.	1.2	11
43	Association between physical activity and cardiovascular risk factors: Dose and sex matter. Journal of Sport and Health Science, 2021, 10, 604-606.	3.3	11
44	Multithreat multisite protection: A security case study. European Journal of Operational Research, 2016, 252, 888-899.	3.5	10
45	Utility Elicitation. Profiles in Operations Research, 2018, , 241-264.	0.3	10
46	Bayesian Network for Managing Runway Overruns in Aviation Safety. Journal of Aerospace Information Systems, 2019, 16, 546-558.	1.0	10
47	Adversarial risk analysis: An overview. Wiley Interdisciplinary Reviews: Computational Statistics, 2022, 14, e1530.	2.1	10
48	SUPPORTING AN AUTONOMOUS SOCIAL AGENT WITHIN A COMPETITIVE ENVIRONMENT. Cybernetics and Systems, 2014, 45, 241-253.	1.6	9
49	Security economics: an adversarial risk analysis approach to airport protection. Annals of Operations Research, 2016, 245, 359-378.	2.6	9
50	Critical networked infrastructure protection from adversaries. Reliability Engineering and System Safety, 2018, 179, 27-36.	5.1	9
51	An Adversarial Risk Analysis Model for an Autonomous Imperfect Decision Agent. Studies in Computational Intelligence, 2013, , 163-187.	0.7	9
52	Sensitivity analysis in statistical decision theory: A decision analytic view. Journal of Statistical Computation and Simulation, 1997, 57, 197-218.	0.7	8
53	Dealing with uncertainty in Decision Support Systems: Recent trends (2000â€"2011). Intelligent Decision Technologies, 2012, 6, 245-264.	0.6	8
54	Robustness for Adversarial Risk Analysis. Profiles in Operations Research, 2016, , 39-58.	0.3	8

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55	Current Advances in Neural Networks. Annual Review of Statistics and Its Application, 2022, 9, 197-222.	4.1	8
56	Towards Decision Support for Participatory Democracy. , 2008, , 651-685.		7
57	Bayesian Reliability, Availability, and Maintainability Analysis for Hardware Systems Described Through Continuous Time Markov Chains. Technometrics, 2010, 52, 324-334.	1.3	7
58	Participatory Processes and Instruments. Advances in Group Decision and Negotiation, 2010, , 31-45.	0.1	7
59	SOME RESULTS ON POSTERIOR REGRET Î"-Î̃œÎ™Î̃™œÎ̃Î§ ESTIMATION. Statistics and Risk Modeling, 1995, 13, .	0.7	6
60	Joint sensitivity in bayesian decision theory. Test, 2003, 12, 173-194.	0.7	6
61	Costâ€efficient equitable water distribution in Algeria: a bicriteria fair division problem with network constraints. International Transactions in Operational Research, 2012, 19, 675-693.	1.8	6
62	Introduction to the special issue on e-democracy. Group Decision and Negotiation, 2008, 17, 175-177.	2.0	5
63	Balanced increment and concession methods for negotiation support. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2010, 104, 41-56.	0.6	5
64	An affective decision-making model with applications to social robotics. EURO Journal on Decision Processes, 2020, 8, 13-39.	1.8	5
65	An experimental study of a web-based framework for group decision support with applications to participatory budget elaboration. International Journal of Technology, Policy and Management, 2007, 7, 167.	0.1	4
66	Risk Analysis for Unintentional Slide Deployment During Airline Operations. Risk Analysis, 2015, 35, 1652-1662.	1.5	4
67	Perspectives on Adversarial Classification. Mathematics, 2020, 8, 1957.	1.1	4
68	Variationally Inferred Sampling through a Refined Bound. Entropy, 2021, 23, 123.	1.1	4
69	Topics on the Foundations of Robust Bayesian Analysis. Lecture Notes in Statistics, 2000, , 33-44.	0.1	4
70	Approximate Solutions to Semi Markov Decision Processes through Markov Chain Montecarlo Methods. Lecture Notes in Computer Science, 2003, , 151-162.	1.0	4
71	Adversarial Risk Analysis: Applications to Basic Counterterrorism Models. Lecture Notes in Computer Science, 2009, , 306-315.	1.0	4
72	Modeling Ethical and Operational Preferences in Automated Driving Systems. Decision Analysis, 2022, 19, 21-43.	1.2	4

#	ARTICLE	IF	CITATIONS
73	Augmented probability simulation methods for sequential games. European Journal of Operational Research, 2023, 306, 418-430.	3.5	4
74	Adversarial issues in reliability. European Journal of Operational Research, 2018, 266, 1113-1119.	3.5	3
75	Group Decision Making with Affective Features. Group Decision and Negotiation, 2020, 29, 843-869.	2.0	3
76	An Adversarial Risk Analysis Framework for Batch Acceptance Problems. Decision Analysis, 2021, 18, 25-40.	1.2	3
77	e-Democracy: A Group Decision and Negotiation-Oriented Overview. Advances in Group Decision and Negotiation, 2010, , 1-12.	0.1	3
78	Sobre soluciones optimas en problemas de optimizacion multiobjetivo. Trabajos De Investigacion Operativa, 1987, 2, 49-67.	0.1	2
79	Wavelet-based random densities. Computational Statistics, 2000, 15, 183-203.	0.8	2
80	Improving usability in e-democracy systems: systematic development of navigation in an e-participatory budget system. International Journal of Technology, Policy and Management, 2007, 7, 151.	0.1	2
81	Large€scale automated forecasting for network safety and security monitoring. Applied Stochastic Models in Business and Industry, 2019, 35, 431-447.	0.9	2
82	GIRA: a general model for incident risk analysis. Journal of Risk Research, 2019, 22, 191-208.	1.4	2
83	Competition and cooperation in a community of autonomous agents. Autonomous Robots, 2020, 44, 533-546.	3.2	2
84	Spatial risk assessment in case of multiple nuclear release scenarios. Socio-Economic Planning Sciences, 2020, 70, 100721.	2.5	2
85	Protecting From Malware Obfuscation Attacks Through Adversarial Risk Analysis. Risk Analysis, 2020, 40, 2598-2609.	1.5	2
86	Safer Skies over Spain. Interfaces, 2020, 50, 21-36.	1.6	2
87	Adversarial Risk Analysis as a Decomposition Method for Structured Expert Judgement Modelling. Profiles in Operations Research, 2021, , 179-196.	0.3	2
88	Gradient Methods for Solving Stackelberg Games. Lecture Notes in Computer Science, 2019, , 126-140.	1.0	2
89	Partial Information and Sensitivity Analysis in Multi-objective Decision Making. Lecture Notes in Economics and Mathematical Systems, 1989, , 424-433.	0.3	2
90	Collaborative Decision Analysis and e-Democracy. Advances in Group Decision and Negotiation, 2010, , 83-99.	0.1	2

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91	Wavelets for Object Representation and Recognition in Computer Vision. Lecture Notes in Statistics, 1999, , 267-290.	0.1	2
92	MÃ©todos de incrementos y concesiones equilibradas para el apoyo de negociaciones. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2010, 104, 41-56.	0.6	2
93	Special issue on intelligent technologies for planning and decision making under uncertainty. Intelligent Decision Technologies, 2012, 6, 243-244.	0.6	1
94	MULTIOBJECTIVE DECISION SUPPORT FOR THE KWANZA RIVER MANAGEMENT. International Journal of Information Technology and Decision Making, 2013, 12, 999-1020.	2.3	1
95	Special issue of ASMBI for GDDR 2017. Applied Stochastic Models in Business and Industry, 2019, 35, 398-398.	0.9	1
96	e-Democracy: The Road Ahead. Advances in Group Decision and Negotation, 2010, , 345-358.	0.1	1
97	On the Foundations of Decision Making Under Partial Information. , 1992, , 93-100.		1
98	Concept Uncertainty in Adversarial Statistical Decision Theory. Studies in Systems, Decision and Control, 2018, , 527-542.	0.8	1
99	Some efficient simple rules in Î“-minimax estimation. Communications in Statistics Part B: Simulation and Computation, 1994, 23, 393-413.	0.6	0
100	Learning the Rules of the Game: An Interpretable AI for Learning How to Play. IEEE Transactions on Games, 2022, 14, 253-261.	1.2	0
101	A Framework for Innovation Management. Profiles in Operations Research, 2011, , 167-185.	0.3	0
102	Designing Autonomous Social Agents under the Adversarial Risk Analysis Framework. Communications in Computer and Information Science, 2013, , 292-303.	0.4	0
103	Posterior Simulation for Feed Forward Neural Network Models. , 1996, , 385-390.		0
104	Forecasting aviation safety occurrences. Applied Stochastic Models in Business and Industry, 0, , .	0.9	0