Jun Zhuang

List of Publications by Year
in descending order

144 papers	4,294 citations	117453 34 h-index	143772 57 g-index
145 all docs	145 docs citations	145 times ranked	2326 citing authors

#	Article	IF	Citations
1	Counterterrorism resource allocation during a pandemic: The effects of dynamic target valuations when facing a strategic terrorist. Risk Analysis, 2023, 43, 1235-1253.	1.5	5
2	Bridging the research-practice gap in disaster relief: using the IFRC Code of Conduct to develop an aid model. Annals of Operations Research, 2022, 312, 1337-1357.	2.6	12
3	Monitoring Misinformation on Twitter During Crisis Events: A Machine Learning Approach. Risk Analysis, 2022, 42, 1728-1748.	1.5	23
4	Online crowd-funding strategy: a game-theoretical approach to a Kickstarter case study. Annals of Operations Research, 2022, 315, 1019-1036.	2.6	4
5	Rumor recognition behavior of social media users in emergencies. Journal of Management Science and Engineering, 2022, 7, 36-47.	1.9	17
6	Interplay of rumor propagation and clarification on social media during crisis events - A game-theoretic approach. European Journal of Operational Research, 2022, 298, 714-733.	3.5	24
7	Stay Home or Not? Modeling Individuals' Decisions During the COVID-19 Pandemic. Decision Analysis, 2022, 19, 319-336.	1.2	4
8	Blockchain in humanitarian operations management: A review of research and practice. Socio-Economic Planning Sciences, 2022, 80, 101175.	2.5	19
9	On the adoption of new technology to enhance counterterrorism measures: An attacker–defender game with risk preferences. Reliability Engineering and System Safety, 2022, 218, 108151.	5.1	6
10	Blockchain for Disaster Management. Studies in Big Data, 2022, , 253-269.	0.8	2
11	Comprehensive Evolution Analysis of Public Perceptions Related to Pediatric Care: A Sina Weibo Case Study (2013–2020). SAGE Open, 2022, 12, 215824402210872.	0.8	5
12	Social Media User Behavior and Emotions during Crisis Events. International Journal of Environmental Research and Public Health, 2022, 19, 5197.	1.2	9
13	Defensive Resource Allocation: The Roles of Forecast Information and Risk Control. Risk Analysis, 2021, 41, 1304-1322.	1.5	4
14	An exploratory analysis for performance assessment of state police forces in india: an eclectic approach. Operational Research, 2021, 21, 1125-1151.	1.3	2
15	Modeling multi-target defender-attacker games with quantal response attack strategies. Reliability Engineering and System Safety, 2021, 205, 107165.	5.1	21
16	Technology adoption for airport security: Modeling public disclosure and secrecy in an attacker-defender game. Reliability Engineering and System Safety, 2021, 207, 107355.	5.1	13
17	Reciprocal spreading and debunking processes of online misinformation: A new rumor spreading–debunking model with a case study. Physica A: Statistical Mechanics and Its Applications, 2021, 565, 125572.	1.2	26
18	Delete or Not: A Game–Theoretical Model for Soft Censorship of Rumor. Risk Analysis, 2021, 41, 1840-1859.	1.5	4

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19	Transmission dynamics and quarantine control of COVID-19 in cluster community: A new transmission-quarantine model with case study for diamond princess. Mathematical Models and Methods in Applied Sciences, 2021, 31, 619-648.	1.7	10
20	Social Media Behavior and Emotional Evolution during Emergency Events. Healthcare (Switzerland), 2021, 9, 1109.	1.0	6
21	A Hybrid Recommendation Approach for Viral Food Based on Online Reviews. Foods, 2021, 10, 1801.	1.9	6
22	Changes of public risk perception in China: 2008â€"2018. Science of the Total Environment, 2021, 799, 149453.	3.9	3
23	Discrete game-theoretic analysis of defense in correlated cyber-physical systems. Annals of Operations Research, 2020, 294, 741-767.	2.6	11
24	A game-theoretic approach to modeling attacks and defenses of smart grids at three levels. Reliability Engineering and System Safety, 2020, 195, 106683.	5.1	33
25	Defenderâ€"Attacker Games with Asymmetric Player Utilities. Risk Analysis, 2020, 40, 408-420.	1.5	15
26	Information Seeking and Information Sharing Related to Hurricane Harvey. Journalism and Mass Communication Quarterly, 2020, 97, 1054-1079.	1.4	34
27	Keep it or give back? Optimal pricing strategy of reward-based crowdfunding with a hybrid mechanism in the sharing economy. International Journal of Production Research, 2020, 58, 6868-6889.	4.9	11
28	Crime risk analysis through big data algorithm with urban metrics. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123627.	1.2	18
29	Analyzing passengersâ€™ emotions following flight delays- a 2011â€"2019 case study on SKYTRAX comments. Journal of Air Transport Management, 2020, 89, 101903.	2.4	26
30	A Two-Stage Optimization Model for Large-Scale Group Decision-Making in Disaster Management: Minimizing Group Conflict and Maximizing Individual Satisfaction. Group Decision and Negotiation, 2020, 29, 901-921.	2.0	31
31	Comparison of municipal solid waste treatment capacity in China: a tournament graph method. Journal of Material Cycles and Waste Management, 2020, 22, 1913-1921.	1.6	7
32	An Attackerâ€"defender Resource Allocation Game with Substitution and Complementary Effects. Risk Analysis, 2020, 40, 1481-1506.	1.5	9
33	Fire Code Inspection and Compliance: A Game-Theoretic Model Between Fire Inspection Agencies and Building Owners. Decision Analysis, 2020, 17, 208-226.	1.2	8
34	Misinformation debunking and cross-platform information sharing through Twitter during Hurricanes Harvey and Irma: a case study on shelters and ID checks. Natural Hazards, 2020, 103, 861-883.	1.6	41
35	Call for Papers on Emerging Topics in Health Decision Analysis. Decision Analysis, 2020, 17, 185-185.	1.2	0
36	Big Data and Predictive Analytics in Fire Risk Using Weather Data. Risk Analysis, 2020, 40, 1438-1449.	1.5	21

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37	An Analysis of Public Opinions Regarding Take-Away Food Safety: A 2015â€"2018 Case Study on Sina Weibo. Foods, 2020, 9, 511.	1.9	22
38	Trends in Multidisciplinary Hazard and Disaster Research: A 1982â€"2017 Case Study. Risk Analysis, 2019, 41, 1195-1203.	1.5	4
39	Information Sharing in Cybersecurity: A Review. Decision Analysis, 2019, 16, 172-196.	1.2	33
40	Modeling the Cost Effectiveness of Fire Protection Resource Allocation in the United States: Models and a 1980â€"2014 Case Study. Risk Analysis, 2019, 39, 1358-1381.	1.5	4
41	Asymptotics for a delay-claim risk model with diffusion, dependence structures and constant force of interest. Journal of Computational and Applied Mathematics, 2019, 353, 219-231.	1.1	19
42	A data-driven integer programming model for soccer clubsâ€™ decision making on player transfers. Environment Systems and Decisions, 2019, 39, 466-481.	1.9	6
43	The policy-making trend analysis of municipal solid waste in China 1980â€"2015. Waste Management and Research, 2019, 37, 601-610.	2.2	10
44	Modeling a multi-target attacker-defender game with multiple attack types. Reliability Engineering and System Safety, 2019, 185, 465-475.	5.1	37
45	A Study on a Sequential Oneâ€Defenderâ€Nâ€Attacker Game. Risk Analysis, 2019, 39, 1414-1432.	1.5	22
46	Scalable simulation of a Disaster Response Agent-based network Management and Adaptation System (DRAMAS). Journal of Risk Research, 2019, 22, 269-290.	1.4	2
47	Regulating food risk managementâ€"a governmentâ€"manufacturer game facing endogenous consumer demand. International Transactions in Operational Research, 2018, 25, 1855-1878.	1.8	16
48	Modeling cumulative defensive resource allocation against a strategic attacker in a multi-period multi-target sequential game. Reliability Engineering and System Safety, 2018, 179, 12-26.	5.1	33
49	Modeling Precheck Parallel Screening Process in the Face of Strategic Applicants with Incomplete Information and Screening Errors. Risk Analysis, 2018, 38, 118-133.	1.5	12
50	Partner selection in disaster relief: Partnership formation in the presence of incompatible agencies. International Journal of Disaster Risk Reduction, 2018, 27, 94-104.	1.8	8
51	Analysis of fire protection efficiency in the United States: a two-stage DEA-based approach. OR Spectrum, 2018, 40, 23-68.	2.1	24
52	Policy-making coordination of municipal solid waste policies in China: a content analysis. Journal of Material Cycles and Waste Management, 2018, 20, 1073-1084.	1.6	10
53	Incorporating risk preferences in stochastic noncooperative games. IISE Transactions, 2018, 50, 1-13.	1.6	12
54	Security screening queues with impatient applicants: A new model with a case study. European Journal of Operational Research, 2018, 265, 919-930.	3.5	13

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55	Stochastic shortest path network interdiction with a case study of Arizonaâ€"Mexico border. Reliability Engineering and System Safety, 2018, 179, 62-73.	5.1	24
56	Perspectives on Cybersecurity Information Sharing among Multiple Stakeholders Using a Decisionâ€Theoretic Approach. Risk Analysis, 2018, 38, 215-225.	1.5	30
57	The role of risk preferences in a multi-target defender-attacker resource allocation game. Reliability Engineering and System Safety, 2018, 169, 95-104.	5.1	32
58	Cyberâ€"Physical Correlation Effects in Defense Games for Large Discrete Infrastructures. Games, 2018, 9, 52.	0.4	6
59	Evaluation of optional fee structures for solid waste management in China. Waste Management and Research, 2018, 36, 513-519.	2.2	5
60	Behavior Analysis of Illegal Fishing in the Gulf of Mexico. Journal of Homeland Security and Emergency Management, 2018, 15, .	0.2	1
61	Defense Strategies for Asymmetric Networked Systems with Discrete Components. Sensors, 2018, 18, 1421.	2.1	11
62	Supervision after Certification: An Evolutionary Game Analysis for Chinese Environmental Labeled Enterprises. Sustainability, 2018, 10, 1494.	1.6	18
63	Rumor response, debunking response, and decision makings of misinformed Twitter users during disasters. Natural Hazards, 2018, 93, 1145-1162.	1.6	89
64	Modeling and Validating Publicâ€"Private Partnerships in Disaster Management. Decision Analysis, 2018, 15, 55-71.	1.2	13
65	Two-stage security screening strategies in the face of strategic applicants, congestions and screening errors. Annals of Operations Research, 2017, 258, 237-262.	2.6	17
66	Crossâ€Milieu Terrorist Collaboration: Using Game Theory to Assess the Risk of a Novel Threat. Risk Analysis, 2017, 37, 342-371.	1.5	5
67	Modeling a Government-Manufacturer-Farmer game for food supply chain risk management. Food Control, 2017, 78, 443-455.	2.8	39
68	New framework that uses patterns and relations to understand terrorist behaviors. Expert Systems With Applications, 2017, 78, 358-375.	4.4	34
69	Fluid approximations and control of queues in emergency departments. European Journal of Operational Research, 2017, 261, 1110-1124.	3.5	10
70	Municipal household solid waste fee based on an increasing block pricing model in Beijing, China. Waste Management and Research, 2017, 35, 228-235.	2.2	9
71	Value-Driven Design Process: A Systematic Decision-Making Framework Considering Different Attribute Preferences From Multiple Stakeholders. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.1	8
72	Toward an integrated sustainable-resilient supply chain: A pharmaceutical case study. Transportation Research, Part E: Logistics and Transportation Review, 2017, 103, 109-142.	3.7	197

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73	N-stage security screening strategies in the face of strategic applicants. Reliability Engineering and System Safety, 2017, 165, 292-301.	5.1	13
74	Modeling a Multitarget Attacker–Defender Game with Budget Constraints. Decision Analysis, 2017, 14, 87-107.	1.2	54
75	On defense strategies for system of systems using aggregated correlations. , 2017, , .		6
76	Driving-forces model on individual behavior in scenarios considering moving threat agents. Physica A: Statistical Mechanics and Its Applications, 2017, 481, 127-140.	1.2	19
77	A three-stage evacuation decision-making and behavior model for the onset of an attack. Transportation Research Part C: Emerging Technologies, 2017, 79, 119-135.	3.9	41
78	Deterrence and Risk Preferences in Sequential Attacker–Defender Games with Continuous Efforts. Risk Analysis, 2017, 37, 2229-2245.	1.5	27
79	A review of game theory applications in natural disaster management research. Natural Hazards, 2017, 89, 1461-1483.	1.6	54
80	Crisis information distribution on Twitter: a content analysis of tweets during Hurricane Sandy. Natural Hazards, 2017, 89, 161-181.	1.6	111
81	Understanding Conflicting Interests of a Government and a Tobacco Manufacturer: A Game-Theoretic Approach. Group Decision and Negotiation, 2017, 26, 1209-1230.	2.0	0
82	Dynamic Forecasting Conditional Probability of Bombing Attacks Based on Time-Series and Intervention Analysis. Risk Analysis, 2017, 37, 1287-1297.	1.5	7
83	Defense strategies for asymmetric networked systems under composite utilities. , 2017, , .		5
84	Game-theoretic strategies for asymmetric networked systems. , 2017, , .		4
85	Homeland Security Resource Allocation Games: Considering Partially Strategic Attackers and Equity. , 2017, , 678-708.		0
86	An improved multi-objective particle swarm optimization algorithm and its application in vehicle scheduling. , 2017, , .		0
87	Validation, Verification, and Uncertainty Quantification for Models with Intelligent Adversaries. , 2017, , 1401-1419.		0
88	Research on Factors Influencing Municipal Household Solid Waste Separate Collection: Bayesian Belief Networks. Sustainability, 2016, 8, 152.	1.6	24
89	Defense of Cyber Infrastructures Against Cyber–Physical Attacks Using Game–Theoretic Models. Risk Analysis, 2016, 36, 694-710.	1.5	49
90	Agent Based Simulation Optimization of Waste Electrical and Electronics Equipment Recovery. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	13

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91	Agent Based Simulation Optimization of Waste Electrical and Electronics Equipment Recovery. , 2016, , .		1
92	Does New Rural Pension Scheme decrease elderly labor supply? Evidence from CHARLS. China Economic Review, 2016, 41, 315-330.	2.1	60
93	How companies and governments react to disasters. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2016, 230, 417-426.	0.6	1
94	Managing consumer behavior toward on-time return of the waste electrical and electronic equipment: A game theoretic approach. International Journal of Production Economics, 2016, 182, 545-563.	5.1	48
95	Experiments on partnership and decision making in a disaster environment. International Journal of Disaster Risk Reduction, 2016, 18, 181-196.	1.8	8
96	Partnership behavior in disaster relief operations: a case study comparison of the responses to the tornado in Joplin, Missouri and Hurricane Sandy along the Jersey Coast. Natural Hazards, 2016, 84, 625-647.	1.6	10
97	Deception-Based Game Theoretical Approach to Mitigate DoS Attacks. Lecture Notes in Computer Science, 2016, , 18-38.	1.0	22
98	Game-theoretic strategies for systems of components using product-form utilities. , 2016, , .		7
99	Modeling Resources Allocation in Attacker–Defender Games with "Warm Up" CSF. Risk Analysis, 2016, 36, 776-791.	1.5	15
100	Introductions to Adversary Behavior: Validating the Models. Risk Analysis, 2016, 36, 650-652.	1.5	5
101	A medical resource allocation model for serving emergency victims with deteriorating health conditions. Annals of Operations Research, 2016, 236, 177-196.	2.6	45
102	The strategic interaction between a company and the government surrounding disasters. Annals of Operations Research, 2016, 237, 27-40.	2.6	25
103	Modeling and mitigating the effects of supply chain disruption in a defender–attacker game. Annals of Operations Research, 2016, 236, 255-270.	2.6	21
104	Modeling costly learning and counter-learning in a defender-attacker game with private defender information. Annals of Operations Research, 2016, 236, 271-289.	2.6	31
105	Balancing pre-disaster preparedness and post-disaster relief. European Journal of Operational Research, 2016, 252, 246-256.	3.5	69
106	Validation, Verification, and Uncertainty Quantification for Models with Intelligent Adversaries. , 2015, , 1-19.		1
107	Modeling Public–Private Partnerships in Disaster Management via Centralized and Decentralized Models. Decision Analysis, 2015, 12, 173-189.	1.2	20
108	Comparison of AHP and Monte Carlo AHP Under Different Levels of Uncertainty. IEEE Transactions on Engineering Management, 2015, 62, 122-132.	2.4	70

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109	On the value of exposure and secrecy of defense system: First-mover advantage vs. robustness. European Journal of Operational Research, 2015, 246, 320-330.	3.5	39
110	Simulating a Multi-Stage Screening Network: A Queueing Theory and Game Theory Application. Springer Series in Reliability Engineering, 2015, , 55-80.	0.3	3
111	Subsidizing to Disrupt a Terrorism Supply Chainâ€"A Four-Player Game. , 2015, , 272-292.		1
112	A computational study on different penalty approaches for solving constrained global optimization problems with the electromagnetism-like method. Optimization, 2014, 63, 403-419.	1.0	15
113	Modeling Credible Retaliation Threats in Deterring the Smuggling of Nuclear Weapons Using Partial Inspectionâ€"A Three-Stage Game. Decision Analysis, 2014, 11, 43-62.	1.2	58
114	Discrete Dynamic Gaming Models in Supply Chain Management and Project Management. Discrete Dynamics in Nature and Society, 2014, 2014, 1-2.	0.5	4
115	Subsidizing to disrupt a terrorism supply chainâ€"a four-player game. Journal of the Operational Research Society, 2014, 65, 1108-1119.	2.1	59
116	Publicity vs. impact in nonprofit disclosures and donor preferences: a sequential game with one nonprofit organization and N donors. Annals of Operations Research, 2014, 221, 469-491.	2.6	51
117	Modeling Parking Behavior Under Uncertainty: A Static Game Theoretic versus a Sequential Neo-additive Capacity Modeling Approach. Networks and Spatial Economics, 2013, 13, 327-350.	0.7	41
118	Game-theoretic resilience analysis of Cyber-Physical Systems. , 2013, , .		14
119	The impact of disaster on the strategic interaction between company and government. European Journal of Operational Research, 2013, 225, 363-376.	3.5	32
120	Hybrid defensive resource allocations in the face of partially strategic attackers in a sequential defenderâ€"attacker game. European Journal of Operational Research, 2013, 228, 262-272.	3.5	135
121	Cost of Equity in Homeland Security Resource Allocation in the Face of a Strategic Attacker. Risk Analysis, 2013, 33, 1083-1099.	1.5	93
122	A Game-Theoretic Model of Disclosureâ€"Donation Interactions in the Market for Charitable Contributions. Journal of Applied Communication Research, 2013, 41, 40-63.	0.7	12
123	Technology Adoption, Accumulation, and Competition in Multiperiod Attacker-Defender Games. , 2013, 18, 33-47.		60
124	Regulation Games Between Government and Competing Companies: Oil Spills and Other Disasters. Decision Analysis, 2012, 9, 156-164.	1.2	32
125	Cloud computing infrastructure robustness: A game theory approach. , 2012, , .		11
126	The timing and deterrence of terrorist attacks due to exogenous dynamics. Journal of the Operational Research Society, 2012, 63, 726-735.	2.1	53

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127	Modelling 'contracts' between a terrorist group and a government in a sequential game. Journal of the Operational Research Society, 2012, 63, 790-809.	2.1	26
128	Robust Allocation of a Defensive Budget Considering an Attacker's Private Information. Risk Analysis, 2012, 32, 930-943.	1.5	107
129	Case study in disaster relief: A descriptive analysis of agency partnerships in the aftermath of the January 12th, 2010 Haitian earthquake. Socio-Economic Planning Sciences, 2012, 46, 67-77.	2.5	36
130	Modeling Arbitrary Layers of Continuous-Level Defenses in Facing with Strategic Attackers. Risk Analysis, 2011, 31, 533-547.	1.5	85
131	Balancing congestion and security in the presence of strategic applicants with private information. European Journal of Operational Research, 2011, 212, 100-111.	3.5	84
132	Are NFL Coaches Risk and Loss Averse? Evidence from Their Use of Kickoff Strategies. Journal of Quantitative Analysis in Sports, 2011, 7, .	0.5	12
133	Decisions in Disaster Recovery Operations: A Game Theoretic Perspective on Organization Cooperation. Journal of Homeland Security and Emergency Management, 2011, 8, .	0.2	28
134	Governments' and Terrorists' Defense and Attack in a T-Period Game. Decision Analysis, 2011, 8, 46-70.	1.2	74
135	SECRECY AND DECEPTION AT EQUILIBRIUM, WITH APPLICATIONS TO ANTI-TERRORISM RESOURCE ALLOCATION. Defence and Peace Economics, 2011, 22, 43-61.	1.0	65
136	Defending Against a Terrorist Who Accumulates Resources. , 2011, 16, 21-39.		18
137	Modeling secrecy and deception in a multiple-period attacker–defender signaling game. European Journal of Operational Research, 2010, 203, 409-418.	3.5	211
138	Reasons for Secrecy and Deception in Homeland-Security Resource Allocation. Risk Analysis, 2010, 30, 1737-1743.	1.5	76
139	Monte Carlo simulation-based supply chain disruption management for wargames. , 2010, , .		2
140	Impacts of Subsidized Security on Stability and Total Social Costs of Equilibrium Solutions in an N-Player Game with Errors. Engineering Economist, 2010, 55, 131-149.	0.3	61
141	Defending Against Terrorism, Natural Disaster, and All Hazards. Profiles in Operations Research, 2009, , 65-97.	0.3	37
142	Balancing Terrorism and Natural Disasters—Defensive Strategy with Endogenous Attacker Effort. Operations Research, 2007, 55, 976-991.	1.2	372
143	Subsidies in Interdependent Security With Heterogeneous Discount Rates. Engineering Economist, 2007, 52, 1-19.	0.3	63
144	Economic Analysis of Replacing Endophyte-Infected with Endophyte-Free Tall Fescue Pastures. Agronomy Journal, 2005, 97, 711-716.	0.9	13