Cleotilde Gonzalez

List of Publications by Year
in descending order

117 papers	**4,181** citations	147801 **31** h-index	133252 **59** g-index
125 all docs	**125** docs citations	**125** times ranked	**2489** citing authors

#	Article	IF	Citations
1	Instance-based learning in dynamic decision making. Cognitive Science, 2003, 27, 591-635.	1.7	364
2	Why don't well-educated adults understand accumulation? A challenge to researchers, educators, and citizens. Organizational Behavior and Human Decision Processes, 2009, 108, 116-130.	2.5	263
3	Instance-based learning: Integrating sampling and repeated decisions from experience.. Psychological Review, 2011, 118, 523-551.	3.8	221
4	Unpacking the exploration–exploitation tradeoff: A synthesis of human and animal literatures.. Decision, 2015, 2, 191-215.	0.5	216
5	The framing effect and risky decisions: Examining cognitive functions with fMRI. Journal of Economic Psychology, 2005, 26, 1-20.	2.2	185
6	The use of microworlds to study dynamic decision making. Computers in Human Behavior, 2005, 21, 273-286.	8.5	175
7	Effects of cyber security knowledge on attack detection. Computers in Human Behavior, 2015, 48, 51-61.	8.5	173
8	Decision support for real-time, dynamic decision-making tasks. Organizational Behavior and Human Decision Processes, 2005, 96, 142-154.	2.5	116
9	Effects of feedback and complexity on repeated decisions from description. Organizational Behavior and Human Decision Processes, 2011, 116, 286-295.	2.5	92
10	Learning to Make Decisions in Dynamic Environments: Effects of Time Constraints and Cognitive Abilities. Human Factors, 2004, 46, 449-460.	3.5	91
11	Instance–based Learning: A General Model of Repeated Binary Choice. Journal of Behavioral Decision Making, 2012, 25, 143-153.	1.7	87
12	Understanding the building blocks of dynamic systems. System Dynamics Review, 2007, 23, 1-17.	1.9	84
13	Cyber Situation Awareness. Human Factors, 2013, 55, 605-618.	3.5	79
14	How choice ecology influences search in decisions from experience. Cognition, 2012, 124, 334-342.	2.2	75
15	Task Workload and Cognitive Abilities in Dynamic Decision Making. Human Factors, 2005, 47, 92-101.	3.5	65
16	The relationships between cognitive ability and dynamic decision making. Intelligence, 2005, 33, 169-186.	3.0	63
17	Effects of Information Availability on Command-and-Control Decision Making. Human Factors, 2016, 58, 301-321.	3.5	58
18	Does animation in user interfaces improve decision making?. , 1996, , .		57

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19	Measuring and Predicting Shared Situation Awareness in Teams. Journal of Cognitive Engineering and Decision Making, 2009, 3, 280-308.	2.3	51
20	A cognitive modeling account of simultaneous learning and fatigue effects. Cognitive Systems Research, 2011, 12, 19-32.	2.7	51
21	The effects of time delay in reciprocity games. Journal of Economic Psychology, 2013, 34, 20-35.	2.2	48
22	Dynamic Decision Making: Learning Processes and New Research Directions. Human Factors, 2017, 59, 713-721.	3.5	46
23	Decisions from experience reduce misconceptions about climate change. Journal of Environmental Psychology, 2012, 32, 19-29.	5.1	44
24	Developing trust: First impressions and experience. Journal of Economic Psychology, 2014, 43, 16-29.	2.2	41
25	Creative Persuasion: A Study on Adversarial Behaviors and Strategies in Phishing Attacks. Frontiers in Psychology, 2018, 9, 135.	2.1	41
26	Phishing attempts among the dark triad: Patterns of attack and vulnerability. Computers in Human Behavior, 2018, 87, 174-182.	8.5	41
27	A Description–Experience Gap in Social Interactions: Information about Interdependence and Its Effects on Cooperation. Journal of Behavioral Decision Making, 2014, 27, 349-362.	1.7	38
28	Understanding stocks and flows through analogy. System Dynamics Review, 2012, 28, 3-27.	1.9	37
29	Effects of domain experience in the stock–flow failure. System Dynamics Review, 2010, 26, 347-354.	1.9	35
30	Situation Awareness in Dynamic Decision Making: Effects of Practice and Working Memory. Journal of Cognitive Engineering and Decision Making, 2007, 1, 56-74.	2.3	34
31	A Cognitive Model of Dynamic Cooperation With Varied Interdependency Information. Cognitive Science, 2015, 39, 457-495.	1.7	34
32	The boundaries of instance-based learning theory for explaining decisions from experience. Progress in Brain Research, 2013, 202, 73-98.	1.4	31
33	How analytic reasoning style and global thinking relate to understanding stocks and flows. Journal of Operations Management, 2015, 39-40, 23-30.	5.2	31
34	Refuting data aggregation arguments and how the instance-based learning model stands criticism: A reply to Hills and Hertwig (2012).. Psychological Review, 2012, 119, 893-898.	3.8	29
35	Decisions from experience: How groups and individuals adapt to change. Memory and Cognition, 2014, 42, 1384-1397.	1.6	29
36	Human control of climate change. Climatic Change, 2012, 111, 497-518.	3.6	28

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37	Practice Makes Improvement: How Adults with Autism Out-Perform Others in a Naturalistic Visual Search Task. Journal of Autism and Developmental Disorders, 2013, 43, 2259-2268.	2.7	28
38	Making Sense of Dynamic Systems: How Our Understanding of Stocks and Flows Depends on a Global Perspective. Cognitive Science, 2016, 40, 496-512.	1.7	28
39	Managing the Budget: Stock–Flow Reasoning and the CO_2 Accumulation Problem. Topics in Cognitive Science, 2016, 8, 138-159.	1.9	27
40	A generic dynamic control task for behavioral research and education. Computers in Human Behavior, 2011, 27, 1904-1914.	8.5	26
41	Perspectives on the Role of Cognition in Cyber Security. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 268-271.	0.3	26
42	Making Instance-based Learning Theory usable and understandable: The Instance-based Learning Tool. Computers in Human Behavior, 2012, 28, 1227-1240.	8.5	26
43	Allais from Experience: Choice Consistency, Rare Events, and Common Consequences in Repeated Decisions. Journal of Behavioral Decision Making, 2015, 28, 369-381.	1.7	26
44	The Role of Inertia in Modeling Decisions from Experience with Instance-Based Learning. Frontiers in Psychology, 2012, 3, 177.	2.1	25
45	Reciprocal trust mediates deep transfer of learning between games of strategic interaction. Organizational Behavior and Human Decision Processes, 2013, 120, 206-215.	2.5	25
46	Dissociation of S-R compatibility and Simon effects with mixed tasks and mappings.. Journal of Experimental Psychology: Human Perception and Performance, 2013, 39, 593-609.	0.9	25
47	Sociometrics and observational assessment of teaming and leadership in a cyber security defense competition. Computers and Security, 2018, 73, 114-136.	6.0	25
48	Animation in User Interfaces Designed for Decision Support Systems: The Effects of Image Abstraction, Transition, and Interactivity on Decision Quality. Decision Sciences, 1997, 28, 793-823.	4.5	24
49	Instance-based learning in dynamic decision making. Cognitive Science, 2003, 27, 591-635.	1.7	24
50	Cognition and Technology. Advances in Information Security, 2014, , 93-117.	1.2	23
51	A Loser Can Be a Winner: Comparison of Two Instance-based Learning Models in a Market Entry Competition. Games, 2011, 2, 136-162.	0.6	22
52	Diversity during training enhances detection of novel stimuli. Journal of Cognitive Psychology, 2011, 23, 342-350.	0.9	22
53	Learning to Stand in the Other's Shoes. Social Science Computer Review, 2013, 31, 236-243.	4.2	22
54	Learning in Dynamic Decision Making: The Recognition Process. Computational and Mathematical Organization Theory, 2003, 9, 287-304.	2.0	20

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55	Modeling trust dynamics in strategic interaction.. Journal of Applied Research in Memory and Cognition, 2015, 4, 197-211.	1.1	20
56	Why Do We Want to Delay Actions on Climate Change? Effects of Probability and Timing of Climate Consequences. Journal of Behavioral Decision Making, 2012, 25, 154-164.	1.7	19
57	The Descriptionâ€"Experience Gap in Risky and Ambiguous Gambles. Journal of Behavioral Decision Making, 2014, 27, 316-327.	1.7	19
58	Cyber-Security: Role of Deception in Cyber-Attack Detection. Advances in Intelligent Systems and Computing, 2016, , 85-96.	0.6	19
59	Toward Personalized Deceptive Signaling for Cyber Defense Using Cognitive Models. Topics in Cognitive Science, 2020, 12, 992-1011.	1.9	19
60	ACognitive Approach to Game Usability and Design: Mental Model Development in Novice Real-Time Strategy Gamers. Cyberpsychology, Behavior and Social Networking, 2006, 9, 361-366.	2.2	17
61	Mathematical knowledge is related to understanding stocks and flows: results from two nations. System Dynamics Review, 2015, 31, 97-114.	1.9	17
62	Training to Detect Phishing Emails: Effects of the Frequency of Experienced Phishing Emails. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 453-457.	0.3	17
63	Theory of Mind From Observation in Cognitive Models and Humans. Topics in Cognitive Science, 2022, 14, 665-686.	1.9	17
64	Adaptive Cyber Deception: Cognitively Informed Signaling for Cyber Defense. , 2020, , .		17
65	Mission Command in the Age of Network-Enabled Operations: Social Network Analysis of Information Sharing and Situation Awareness. Frontiers in Psychology, 2016, 7, 937.	2.1	16
66	Framing From Experience: Cognitive Processes and Predictions of Risky Choice. Cognitive Science, 2016, 40, 1163-1191.	1.7	16
67	Intergroup Prisonerâ€™s Dilemma with Intragroup Power Dynamics. Games, 2011, 2, 21-51.	0.6	13
68	Reducing the Linear Perception of Nonlinearity: Use of a Physical Representation. Journal of Behavioral Decision Making, 2013, 26, 51-67.	1.7	12
69	Update now or later? Effects of experience, cost, and risk preference on update decisions. Translational Research in Oral Oncology, 2020, 6, .	3.3	12
70	Convergence and Constraints Revealed in a Qualitative Model Comparison. Journal of Cognitive Engineering and Decision Making, 2009, 3, 131-155.	2.3	11
71	Effects of training with added difficulties on RADAR detection. Applied Cognitive Psychology, 2011, 25, 395-407.	1.6	11
72	Towards a Cognitive Theory of Cyber Deception. Cognitive Science, 2021, 45, e13013.	1.7	11

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73	Design of Dynamic and Personalized Deception: A Research Framework and New Insights. , 2020, , .		11
74	Graphical features of flow behavior and the stock and flow failure. System Dynamics Review, 2017, 33, 59-70.	1.9	10
75	Observed Variability and Values Matter: Toward a Better Understanding of Information Search and Decisions from Experience. Journal of Behavioral Decision Making, 2013, 27, n/a-n/a.	1.7	9
76	Security under Uncertainty: Adaptive Attackers Are More Challenging to Human Defenders than Random Attackers. Frontiers in Psychology, 2017, 8, 982.	2.1	9
77	Learning and Dynamic Decision Making. Topics in Cognitive Science, 2022, 14, 14-30.	1.9	9
78	Preparing for novelty with diverse training. Applied Cognitive Psychology, 2011, 25, 682-691.	1.6	8
79	Learning to Signal in the Goldilocks Zone: Improving Adversary Compliance in Security Games. Lecture Notes in Computer Science, 2020, , 725-740.	1.3	8
80	Scaling up Instanceâ€Based Learning Theory to Account for Social Interactions. Negotiation and Conflict Management Research, 2011, 4, 110-128.	1.0	7
81	Training Decisions from Experience with Decision-Making Games. , 2012, , 167-178.		7
82	Looking from the hacker's perspective: Role of deceptive strategies in cyber security. , 2016, , .		7
83	Dynamics of Decision Making in Cyber Defense: Using Multi-agent Cognitive Modeling to Understand CyberWar. Lecture Notes in Computer Science, 2017, , 113-127.	1.3	7
84	A study of dynamic information display and decision-making in abstract trust games. International Journal of Human Computer Studies, 2018, 113, 1-14.	5.6	7
85	Math matters: mathematical knowledge plays an essential role in Chinese undergraduates' stockâ€andâ€flow task performance. System Dynamics Review, 2019, 35, 208-231.	1.9	7
86	From Individual Decisions from Experience to Behavioral Game Theory: Lessons for Cybersecurity. Advances in Information Security, 2013, , 73-86.	1.2	7
87	Designing effective masking strategies for cyberdefense through human experimentation and cognitive models. Computers and Security, 2022, 117, 102671.	6.0	7
88	Role of Intrusion-Detection Systems in Cyber-Attack Detection. Advances in Intelligent Systems and Computing, 2016, , 97-109.	0.6	6
89	Integrating Trends in Decision-Making Research. Journal of Cognitive Engineering and Decision Making, 2016, 10, 120-122.	2.3	6
90	Modeling the effects of amount and timing of deception in simulated network scenarios. , 2017, , .		6

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91	Selfish algorithm and emergence of collective intelligence. Journal of Complex Networks, 2020, 8, .	1.8	6
92	Rock-Paper-Scissors Play: Beyond the Win-Stay/Lose-Change Strategy. Games, 2021, 12, 52.	0.6	6
93	An Exploratory Study of a Masking Strategy of Cyberdeception Using CyberVAN. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 446-450.	0.3	6
94	Patterns of choice adaptation in dynamic risky environments. Memory and Cognition, 2022, 50, 864-881.	1.6	6
95	Action diversity in a simulation of the Israeliâ€"Palestinian conflict. Computers in Human Behavior, 2012, 28, 233-240.	8.5	5
96	Validating instance-based learning mechanisms outside of ACT-R. Journal of Computational Science, 2013, 4, 262-268.	2.9	5
97	SpeedyIBL: A comprehensive, precise, and fast implementation of instance-based learning theory. Behavior Research Methods, 2023, 55, 1734-1757.	4.0	5
98	Maximizing Scales Do Not Reliably Predict Maximizing Behavior in Decisions from Experience. Journal of Behavioral Decision Making, 2018, 31, 402-414.	1.7	4
99	How to use a multicriteria comparison procedure to improve modeling competitions: A comment on Erev et al. (2017).. Psychological Review, 2021, 128, 995-1005.	3.8	4
100	Cognitive Science: An Introduction. , 2013, , 61-67.		4
101	What Attackers Know and What They Have to Lose: Framing Effects on Cyber-attacker Decision Making. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 456-460.	0.3	4
102	A Social Interpolation Model of Group Problemâ€"Solving. Cognitive Science, 2021, 45, e13066.	1.7	4
103	Verbal Protocols in Real-Time Dynamic Decision-Making. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 293-296.	0.3	3
104	Effects of Automatic Detection on Dynamic Decision Making. Journal of Cognitive Engineering and Decision Making, 2008, 2, 328-348.	2.3	3
105	Cognitive architectures combine formal and heuristic approaches. Behavioral and Brain Sciences, 2013, 36, 285-286.	0.7	3
106	Enabling Eco-Friendly Choices by Relying on the Proportional-Thinking Heuristic. Sustainability, 2013, 5, 357-371.	3.2	3
107	Training for the Unknown: The Role of Feedback and Similarity in Detecting Zero-day Attacks. Procedia Manufacturing, 2015, 3, 1088-1095.	1.9	3
108	The impact of variability and prechoice experience on taking safety measures: The case of security updates. Journal of Behavioral Decision Making, 2020, 33, 3-14.	1.7	3

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109	Cyber Situation Awareness through Instance-Based Learning. , 2012, , 125-140.		3
110	Choice adaptation to changing environments: trends, feedback, and observability of change. Memory and Cognition, 2022, 50, 1486-1512.	1.6	3
111	Human Factors in Cyber Security Defense. , 2018, , 85-104.		2
112	Categorization of Events in Security Scenarios. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 274-278.	0.3	1
113	Impact of numerical and graphical formats on dynamic decision making performance. , 2003, , .		1
114	An instance-based-learning simulation model to predict knowledge assets evolution involved in potential digital transformation projects. Knowledge Management Research and Practice, 2022, 20, 843-864.	4.1	1
115	The Impact of Target Base Rate on Training and Transfer of Learning in Airline Luggage Screening: An Examination of Three Base Rate Scenarios. Applied Cognitive Psychology, 2013, 27, 263-273.	1.6	0
116	How people do relational reasoning? Role of problem complexity and domain familiarity. Computers in Human Behavior, 2014, 41, 319-326.	8.5	0
117	Learning About the Effects of Alert Uncertainty in Attack and Defend Decisions via Cognitive Modeling. Human Factors, 2020, , 001872082094542.	3.5	0