Philippe Giabbanelli

List of Publications by Year
in descending order

| 86 papers | 1,583 citations | 394421 | | 377865 | |
| | | 19 h-index | | 34 g-index | |

| 94 all docs | 94 docs citations | 94 times ranked | 1413 citing authors |

#	ARTICLE	IF	CITATIONS
1	Tools and methods in participatory modeling: Selecting the right tool for the job. Environmental Modelling and Software, 2018, 109, 232-255.	4.5	257
2	A fuzzy cognitive map of the psychosocial determinants of obesity. Applied Soft Computing Journal, 2012, 12, 3711-3724.	7.2	80
3	The nature and level of learner–learner interaction in a chemistry massive open online course (MOOC). Journal of Computing in Higher Education, 2017, 29, 411-431.	6.1	66
4	Combining fuzzy cognitive maps with agent-based modeling: Frameworks and pitfalls of a powerful hybrid modeling approach to understand human-environment interactions. Environmental Modelling and Software, 2017, 95, 320-325.	4.5	66
5	Identifying the Components and Interrelationships of Smart Cities in Indonesia: Supporting Policymaking via Fuzzy Cognitive Systems. IEEE Access, 2019, 7, 46136-46151.	4.2	64
6	Twelve Questions for the Participatory Modeling Community. Earth's Future, 2018, 6, 1046-1057.	6.3	63
7	Impact of Different Policies on Unhealthy Dietary Behaviors in an Urban Adult Population: An Agent-Based Simulation Model. American Journal of Public Health, 2014, 104, 1217-1222.	2.7	57
8	Returning to a Normal Life via COVID-19 Vaccines in the United States: A Large-scale Agent-Based Simulation Study. JMIR Medical Informatics, 2021, 9, e27419.	2.6	55
9	A Systematic Review of Biomarkers and Risk of Incident Type 2 Diabetes: An Overview of Epidemiological, Prediction and Aetiological Research Literature. PLoS ONE, 2016, 11, e0163721.	2.5	51
10	Modeling the influence of social networks and environment on energy balance and obesity. Journal of Computational Science, 2012, 3, 17-27.	2.9	41
11	Creating groups with similar expected behavioural response in randomized controlled trials: a fuzzy cognitive map approach. BMC Medical Research Methodology, 2014, 14, 130.	3.1	34
12	Using Agent-Based Models to Develop Public Policy about Food Behaviours: Future Directions and Recommendations. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-12.	1.3	27
13	Identifying small groups of foods that can predict achievement of key dietary recommendations: data mining of the UK National Diet and Nutrition Survey, 2008–12. Public Health Nutrition, 2016, 19, 1543-1551.	2.2	24
14	Effects of success v failure cases on learner-learner interaction. Computers and Education, 2018, 118, 120-132.	8.3	24
15	Assessing (Social-Ecological) Systems Thinking by Evaluating Cognitive Maps. Sustainability, 2019, 11, 5753.	3.2	24
16	An Agent-Based Social Network Model of Binge Drinking Among Dutch Adults. Jasss, 2013, 16, .	1.8	23
17	Exploring the Interactions Between Physical Well-Being, and Obesity. Canadian Journal of Diabetes, 2015, 39, S12-S13.	0.8	21
18	Modelling the spatial and social dynamics of insurgency. Security Informatics, 2014, 3, .	2.5	20

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19	Using Classifiers to Identify Binge Drinkers Based on Drinking Motives. Substance Use and Misuse, 2014, 49, 110-115.	1.4	19
20	Learning Analytics to Support Teachers' Assessment of Problem Solving: A Novel Application for Machine Learning and Graph Algorithms. , 2019, , 175-199.		18
21	The application of modeling and simulation to public health: Assessing the quality of Agent-Based Models for obesity. Simulation Modelling Practice and Theory, 2021, 108, 102268.	3.8	18
22	From associations to sarcasm: Mining the shift of opinions regarding the Supreme Court on twitter. Online Social Networks and Media, 2019, 14, 100054.	3.6	17
23	Iterative generation of insight from text collections through mutually reinforcing visualizations and fuzzy cognitive maps. Applied Soft Computing Journal, 2019, 76, 459-472.	7.2	17
24	Identifying binge drinkers based on parenting dimensions and alcohol-specific parenting practices: building classifiers on adolescent-parent paired data. BMC Public Health, 2015, 15, 747.	2.9	16
25	THE SMALL-WORLD PROPERTY IN NETWORKS GROWING BY ACTIVE EDGES. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 853-869.	1.4	15
26	Combining association rule mining and network analysis for pharmacosurveillance. Journal of Supercomputing, 2016, 72, 2014-2034.	3.6	15
27	Accurately Inferring Compliance to Five Major Food Guidelines Through Simplified Surveys: Applying Data Mining to the UK National Diet and Nutrition Survey. JMIR Public Health and Surveillance, 2018, 4, e56.	2.6	15
28	Using Visual Analytics to Support the Integration of Expert Knowledge in the Design of Medical Models and Simulations. Procedia Computer Science, 2015, 51, 755-764.	2.0	14
29	Navigating Complex Systems for Policymaking Using Simple Software Tools. Smart Innovation, Systems and Technologies, 2018, , 21-40.	0.6	14
30	Teaching Computational Modeling in the Data Science Era. Procedia Computer Science, 2016, 80, 1968-1977.	2.0	13
31	CoFluences. , 2019, , .		13
32	The Artificial Facilitator: Guiding Participants in Developing Causal Maps Using Voice-Activated Technologies. Lecture Notes in Computer Science, 2019, , 111-129.	1.3	13
33	Rebel with many causes: A computational model of insurgency. , 2012, , .		12
34	An Online Environment to Compare Students' and Expert Solutions to Ill-Structured Problems. Lecture Notes in Computer Science, 2018, , 286-307.	1.3	12
35	Solving Challenges at the Interface of Simulation and Big Data Using Machine Learning. , 2019, , .		12
36	Detecting the Depth and Progression of Learning in Massive Open Online Courses by Mining Discussion Data. Technology, Knowledge and Learning, 2020, 25, 881-898.	4.9	12

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37	Pathways to suicide or collections of vicious cycles? Understanding the complexity of suicide through causal mapping. Social Network Analysis and Mining, 2022, 12, .	2.8	12
38	Exploring the Relationship between Adherence to Treatment and Viral Load through a New Discrete Simulation Model of HIV Infectivity. , 2015, , .		11
39	Analyzing and simplifying model uncertainty in fuzzy cognitive maps. , 2017, , .		11
40	Overcoming the PBL Assessment Challenge: Design and Development of the Incremental Thesaurus for Assessing Causal Maps (ITACM). Technology, Knowledge and Learning, 2019, 24, 161-168.	4.9	11
41	Dealing with complexity: How to use a hybrid approach to incorporate complexity in health behavior interventions. Intelligence-based Medicine, 2020, 3-4, 100008.	2.4	11
42	From Social Media to Expert Reports: The Impact of Source Selection on Automatically Validating Complex Conceptual Models of Obesity. Lecture Notes in Computer Science, 2019, , 434-452.	1.3	11
43	Feasibility and Framing of Interventions Based on Public Support: Leveraging Text Analytics for Policymakers. Lecture Notes in Computer Science, 2016, , 188-200.	1.3	11
44	Modelling the Joint Effect of Social Determinants and Peers on Obesity Among Canadian Adults. Intelligent Systems Reference Library, 2014, , 145-160.	1.2	11
45	Supporting self-management of obesity using a novel game architecture. Health Informatics Journal, 2015, 21, 223-236.	2.1	10
46	Mechanisms for Cell-to-cell and Cell-free Spread of HIV-1 in Cellular Automata Models. , 2019, , .		10
47	The Intersection of Agent Based Models and Fuzzy Cognitive Maps: A Review of an Emerging Hybrid Modeling Practice. , 2019, , .		10
48	Identifying Synergistic Interventions to Address COVID-19 Using a Large Scale Agent-Based Model. Lecture Notes in Computer Science, 2021, , 655-662.	1.3	9
49	Comparing How Different Inquiry-based Approaches Impact Learning Outcomes. Interdisciplinary Journal of Problem-based Learning, 2020, 14, .	0.5	9
50	Network analysis of intra- and interspecific freshwater fish interactions using year-around tracking. Journal of the Royal Society Interface, 2021, 18, 20210445.	3.4	9
51	Reducing the Gap Between the Conceptual Models of Students and Experts Using Graph-Based Adaptive Instructional Systems. Lecture Notes in Computer Science, 2020, , 538-556.	1.3	9
52	Ideal, Best, and Emerging Practices in Creating Artificial Societies. , 2019, , .		8
53	Visual Analytics to Identify Temporal Patterns and Variability in Simulations from Cellular Automata. ACM Transactions on Modeling and Computer Simulation, 2019, 29, 1-26.	0.8	8
54	How Perspectives of a System Change Based on Exposure to Positive or Negative Evidence. Systems, 2021, 9, 23.	2.3	8

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55	A Novel Framework for Complex Networks and Chronic Diseases. Studies in Computational Intelligence, 2013, , 207-215.	0.9	8
56	Performance and Soundness of Simulation: A Case Study Based on a Cellular Automaton for In-Body Spread of HIV. , 2020, , .		8
57	Optimizing Discrete Simulations of the Spread of HIV-1 to Handle Billions of Cells on a Workstation. , 2020, , .		8
58	When Do We Need Massive Computations to Perform Detailed COVIDâ€19 Simulations?. Advanced Theory and Simulations, 2022, 5, 2100343.	2.8	8
59	Exploring the Heterogeneity of Factors Associated with Weight Management in Young Adults. Canadian Journal of Diabetes, 2013, 37, S269-S270.	0.8	6
60	Analyzing the Complexity of Behavioural Factors Influencing Weight in Adults. Smart Innovation, Systems and Technologies, 2018, , 163-181.	0.6	6
61	An Agent-Based Model of Healthy Eating with Applications to Hypertension. Smart Innovation, Systems and Technologies, 2018, , 43-58.	0.6	6
62	(Re)shaping online narratives: when bots promote the message of President Trump during his first impeachment. PeerJ Computer Science, 2022, 8, e947.	4.5	6
63	Detecting unfolding crises with Visual Analytics and Conceptual Maps Emerging phenomena and big data. , 2013, , .		5
64	A Novel Visualization Environment to Support Modelers in Analyzing Data Generated by Cellular Automata. Lecture Notes in Computer Science, 2016, , 529-540.	1.3	5
65	The Necessity and Difficulty of Navigating Uncertainty to Develop an Individual-Level Computational Model. Lecture Notes in Computer Science, 2021, , 407-421.	1.3	5
66	Comparing Implementations of Cellular Automata as Images: A Novel Approach to Verification by Combining Image Processing and Machine Learning. , 2021, , .		5
67	An Experimental Study on the Scalability of Recent Node Centrality Metrics in Sparse Complex Networks. Frontiers in Big Data, 2022, 5, 797584.	2.9	5
68	Automatic Generation ofÂIndividual Fuzzy Cognitive Maps fromÂLongitudinal Data. Lecture Notes in Computer Science, 2022, , 312-325.	1.3	5
69	Ingredients for student-centered learning in undergraduate computing science courses. , 2012, , .		4
70	An Algebraic Approach to Combining Classifiers. Procedia Computer Science, 2015, 51, 1545-1554.	2.0	4
71	Evaluating the Impact of Improving Access on Consumption of Fruits and Vegetables in a Rural Community in Texas: A Modeling Study. Health Equity, 2019, 3, 382-389.	1.9	4
72	Hybrid Agent-Based Simulation of Adoption Behavior and Social Interactions: Alternatives, Opportunities, and Pitfalls. IEEE Transactions on Computational Social Systems, 2022, 9, 770-780.	4.4	4

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73	Interdisciplinary teaching and learning in computing science. , 2012, , .		3
74	Special Issue on Intelligent Healthcare Systems. Journal of Intelligent Systems, 2016, 25, 1-2.	1.6	3
75	Capturing the fast-food landscape in England using large-scale network analysis. EPJ Data Science, 2018, 7, 39.	2.8	3
76	How Modeling Methods for Fuzzy Cognitive Mapping Can Benefit From Psychology Research. , 2021, , .		3
77	Automatically Generating Scenarios from a Text Corpus: A Case Study on Electric Vehicles. Sustainability, 2022, 14, 7938.	3.2	3
78	Modeling information spread in polarized communities: Transitioning from legacy media to a Facebook world. , 2017, , .		2
79	Smart City Evaluation Model in Bandung, West Java, Indonesia. , 2019, , .		2
80	How Do Teams of Novice Modelers Choose an Approach? An Iterated, Repeated Experiment in a First-Year Modeling Course. Lecture Notes in Computer Science, 2021, , 661-674.	1.3	2
81	Supporting a Participant-Centric Management of Obesity via a Self-improving Health Game. Lecture Notes in Computer Science, 2013, , 189-196.	1.3	2
82	Why having in-person lectures when e-learning and podcasts are available?. , 2009, , .		1
83	Design and evaluation of update schemes to optimize asynchronous Cellular Automata with random or cyclic orders. , 2021, , .		1
84	Why Honor Culture? Lessons Learned from an Agent-Based Simulation Model. , 2021, , .		0
85	Editorial for the Special Issue on Modelling and Simulation of Human-Environment Interactions. Sustainability, 2021, 13, 13405.	3.2	0
86	Comparing the Effect of Code Optimizations on Simulation Runtime Across Synchronous Cellular Automata Models of HIV. , 2021, , .		0