

# Philippe Giabbanelli

## List of Publications by Year in descending order

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86  
papers

1,583  
citations

394421

19  
h-index

377865

34  
g-index

94  
all docs

94  
docs citations

94  
times ranked

1413  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	When Do We Need Massive Computations to Perform Detailed COVID-19 Simulations?. Advanced Theory and Simulations, 2022, 5, 2100343.	2.8	8
3	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
4	(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
5	Automatic Generation of Individual Fuzzy Cognitive Maps from Longitudinal Data. Lecture Notes in Computer Science, 2022, , 312-325.	1.3	5
6	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
7	Automatically Generating Scenarios from a Text Corpus: A Case Study on Electric Vehicles. Sustainability, 2022, 14, 7938.	3.2	3
8	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
9	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
10	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
11	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
12	How Perspectives of a System Change Based on Exposure to Positive or Negative Evidence. Systems, 2021, 9, 23.	2.3	8
13	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
14	Comparing Implementations of Cellular Automata as Images: A Novel Approach to Verification by Combining Image Processing and Machine Learning. , 2021, , .		5
15	Why Honor Culture? Lessons Learned from an Agent-Based Simulation Model. , 2021, , .		0
16	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
17	Design and evaluation of update schemes to optimize asynchronous Cellular Automata with random or cyclic orders. , 2021, , .		1
18	How Modeling Methods for Fuzzy Cognitive Mapping Can Benefit From Psychology Research. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
19	Editorial for the Special Issue on Modelling and Simulation of Human-Environment Interactions. Sustainability, 2021, 13, 13405.	3.2	0
20	Comparing the Effect of Code Optimizations on Simulation Runtime Across Synchronous Cellular Automata Models of HIV. , 2021, , .		0
21	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
22	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
23	Performance and Soundness of Simulation: A Case Study Based on a Cellular Automaton for In-Body Spread of HIV. , 2020, , .		8
24	Optimizing Discrete Simulations of the Spread of HIV-1 to Handle Billions of Cells on a Workstation. , 2020, , .		8
25	Comparing How Different Inquiry-based Approaches Impact Learning Outcomes. Interdisciplinary Journal of Problem-based Learning, 2020, 14, .	0.5	9
26	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
27	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
28	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
29	CoFluences. , 2019, , .		13
30	Learning Analytics to Support Teachersâ€™ Assessment of Problem Solving: A Novel Application for Machine Learning and Graph Algorithms. , 2019, , 175-199.		18
31	Mechanisms for Cell-to-cell and Cell-free Spread of HIV-1 in Cellular Automata Models. , 2019, , .		10
32	Ideal, Best, and Emerging Practices in Creating Artificial Societies. , 2019, , .		8
33	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
34	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
35	Solving Challenges at the Interface of Simulation and Big Data Using Machine Learning. , 2019, , .		12
36	Smart City Evaluation Model in Bandung, West Java, Indonesia. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	The Intersection of Agent Based Models and Fuzzy Cognitive Maps: A Review of an Emerging Hybrid Modeling Practice. , 2019, , .		10
38	Assessing (Social-Ecological) Systems Thinking by Evaluating Cognitive Maps. Sustainability, 2019, 11, 5753.	3.2	24
39	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
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	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
42	The Artificial Facilitator: Guiding Participants in Developing Causal Maps Using Voice-Activated Technologies. Lecture Notes in Computer Science, 2019, , 111-129.	1.3	13
43	Analyzing the Complexity of Behavioural Factors Influencing Weight in Adults. Smart Innovation, Systems and Technologies, 2018, , 163-181.	0.6	6
44	Navigating Complex Systems for Policymaking Using Simple Software Tools. Smart Innovation, Systems and Technologies, 2018, , 21-40.	0.6	14
45	Effects of success v failure cases on learner-learner interaction. Computers and Education, 2018, 118, 120-132.	8.3	24
46	Capturing the fast-food landscape in England using large-scale network analysis. EPJ Data Science, 2018, 7, 39.	2.8	3
47	Tools and methods in participatory modeling: Selecting the right tool for the job. Environmental Modelling and Software, 2018, 109, 232-255.	4.5	257
48	Twelve Questions for the Participatory Modeling Community. Earth's Future, 2018, 6, 1046-1057.	6.3	63
49	An Online Environment to Compare Students'™ and Expert Solutions to Ill-Structured Problems. Lecture Notes in Computer Science, 2018, , 286-307.	1.3	12
50	An Agent-Based Model of Healthy Eating with Applications to Hypertension. Smart Innovation, Systems and Technologies, 2018, , 43-58.	0.6	6
51	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
52	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
53	Modeling information spread in polarized communities: Transitioning from legacy media to a Facebook world. , 2017, , .		2
54	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

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55	Analyzing and simplifying model uncertainty in fuzzy cognitive maps. , 2017, , .		11
56	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
57	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
58	Identifying small groups of foods that can predict achievement of key dietary recommendations: data mining of the UK National Diet and Nutrition Survey, 2008â€“12. Public Health Nutrition, 2016, 19, 1543-1551.	2.2	24
59	Combining association rule mining and network analysis for pharmacosurveillance. Journal of Supercomputing, 2016, 72, 2014-2034.	3.6	15
60	Teaching Computational Modeling in the Data Science Era. Procedia Computer Science, 2016, 80, 1968-1977.	2.0	13
61	Special Issue on Intelligent Healthcare Systems. Journal of Intelligent Systems, 2016, 25, 1-2.	1.6	3
62	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
63	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
64	An Algebraic Approach to Combining Classifiers. Procedia Computer Science, 2015, 51, 1545-1554.	2.0	4
65	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
66	Exploring the Interactions Between Physical Well-Being, and Obesity. Canadian Journal of Diabetes, 2015, 39, S12-S13.	0.8	21
67	Exploring the Relationship between Adherence to Treatment and Viral Load through a New Discrete Simulation Model of HIV Infectivity. , 2015, , .		11
68	Supporting self-management of obesity using a novel game architecture. Health Informatics Journal, 2015, 21, 223-236.	2.1	10
69	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
70	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
71	Using Classifiers to Identify Binge Drinkers Based on Drinking Motives. Substance Use and Misuse, 2014, 49, 110-115.	1.4	19
72	Modelling the spatial and social dynamics of insurgency. Security Informatics, 2014, 3, .	2.5	20

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73	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
74	Modelling the Joint Effect of Social Determinants and Peers on Obesity Among Canadian Adults. Intelligent Systems Reference Library, 2014, , 145-160.	1.2	11
75	Exploring the Heterogeneity of Factors Associated with Weight Management in Young Adults. Canadian Journal of Diabetes, 2013, 37, S269-S270.	0.8	6
76	Detecting unfolding crises with Visual Analytics and Conceptual Maps Emerging phenomena and big data. , 2013, , .		5
77	A Novel Framework for Complex Networks and Chronic Diseases. Studies in Computational Intelligence, 2013, , 207-215.	0.9	8
78	Supporting a Participant-Centric Management of Obesity via a Self-improving Health Game. Lecture Notes in Computer Science, 2013, , 189-196.	1.3	2
79	An Agent-Based Social Network Model of Binge Drinking Among Dutch Adults. Jasss, 2013, 16, .	1.8	23
80	Interdisciplinary teaching and learning in computing science. , 2012, , .		3
81	Ingredients for student-centered learning in undergraduate computing science courses. , 2012, , .		4
82	Rebel with many causes: A computational model of insurgency. , 2012, , .		12
83	A fuzzy cognitive map of the psychosocial determinants of obesity. Applied Soft Computing Journal, 2012, 12, 3711-3724.	7.2	80
84	Modeling the influence of social networks and environment on energy balance and obesity. Journal of Computational Science, 2012, 3, 17-27.	2.9	41
85	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
86	Why having in-person lectures when e-learning and podcasts are available?. , 2009, , .		1