

Nigel Gilbert

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

5,898
citations

126907

33
h-index

91884

69
g-index

140
all docs

140
docs citations

140
times ranked

4551
citing authors

#	ARTICLE	IF	CITATIONS
1	Agent-based land-use models: a review of applications. <i>Landscape Ecology</i> , 2007, 22, 1447-1459.	4.2	689
2	Agent-Based Models. , 2008, , .		598
3	How to build and use agent-based models in social science. <i>Mind and Society</i> , 2000, 1, 57-72.	1.3	313
4	Manifesto of computational social science. <i>European Physical Journal: Special Topics</i> , 2012, 214, 325-346.	2.6	266
5	Simulating speech systems. <i>Computer Speech and Language</i> , 1991, 5, 81-99.	4.3	255
6	The Transformation of Research Findings into Scientific Knowledge. <i>Social Studies of Science</i> , 1976, 6, 281-306.	2.5	141
7	A Simulation of the Structure of Academic Science. <i>Sociological Research Online</i> , 1997, 2, 91-105.	1.1	140
8	Problem Areas and Research Networks in Science. <i>Sociology</i> , 1975, 9, 187-203.	2.5	129
9	Platforms and methods for agent-based modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7197-7198.	7.1	129
10	How Do Agents Make Decisions? A Survey. <i>Jasss</i> , 2014, 17, .	1.8	116
11	Computational Modelling of Public Policy: Reflections on Practice. <i>Jasss</i> , 2018, 21, .	1.8	107
12	Key questions for modelling COVID-19 exit strategies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201405.	2.6	106
13	Accounting for Error: How Scientists Construct their Social World when they Account for Correct and Incorrect Belief. <i>Sociology</i> , 1982, 16, 165-183.	2.5	104
14	Paid employment and women's health: a benefit or a source of role strain?. <i>Sociology of Health and Illness</i> , 1985, 7, 375-400.	2.1	104
15	A New Model for Universityâ€Industry Links in Knowledgeâ€Based Economies[*]. <i>Journal of Product Innovation Management</i> , 2011, 28, 218-235.	9.5	90
16	Computational Models That Matter During a Global Pandemic Outbreak: A Call to Action. <i>Jasss</i> , 2020, 23, .	1.8	89
17	Putting Philosophy to Work: Karl Popper's Influence on Scientific Practice. <i>Philosophy of the Social Sciences</i> , 1981, 11, 389-407.	0.9	84
18	Warranting Scientific Belief. <i>Social Studies of Science</i> , 1982, 12, 383-408.	2.5	73

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19	Integrating Women into Class Theory. <i>Sociology</i> , 1985, 19, 384-408.	2.5	70
20	Computational modelling for decision-making: where, why, what, who and how. <i>Royal Society Open Science</i> , 2018, 5, 172096.	2.4	68
21	Learning in innovation networks: Some simulation experiments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 378, 100-109.	2.6	66
22	History and social responses to environmental tax reform in the United Kingdom. <i>Energy Policy</i> , 2006, 34, 930-939.	8.8	63
23	Measuring the growth of science. <i>Scientometrics</i> , 1978, 1, 9-34.	3.0	60
24	Developing agent-based models of complex health behaviour. <i>Health and Place</i> , 2018, 54, 170-177.	3.3	54
25	Synthesizing experiences: Lessons to be learned from Internet-mediated simulation games. <i>Simulation and Gaming</i> , 2003, 34, 10-22.	1.9	51
26	Essay Review: The Quantitative Study of Science: an Examination of the Literature. <i>Science Studies</i> , 1974, 4, 279-294.	0.5	48
27	Replication and Mere Replication. <i>Philosophy of the Social Sciences</i> , 1986, 16, 21-37.	0.9	48
28	Gender, Household Composition and Receipt of Domiciliary Services by Elderly Disabled People. <i>Journal of Social Policy</i> , 1988, 17, 153-175.	1.1	47
29	SIMULATING KNOWLEDGE-GENERATION AND DISTRIBUTION PROCESSES IN INNOVATION COLLABORATIONS AND NETWORKS. <i>Cybernetics and Systems</i> , 2007, 38, 667-693.	2.5	47
30	GETTING AWAY FROM NUMBERS: USING QUALITATIVE OBSERVATION FOR AGENT-BASED MODELING. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2008, 11, 175-185.	1.4	46
31	Attitudes of referees in a multidisciplinary journal: An empirical analysis. <i>Journal of the Association for Information Science and Technology</i> , 2017, 68, 1763-1771.	2.9	36
32	On the social organisation of organisations. <i>Computer Supported Cooperative Work</i> , 1992, 1, 95-118.	2.9	35
33	Simulation: A New Way of Doing Social Science. <i>American Behavioral Scientist</i> , 1999, 42, 1485-1487.	3.8	32
34	Agency and structure: a social simulation of knowledge-intensive industries. <i>Computational and Mathematical Organization Theory</i> , 2011, 17, 59-76.	2.0	29
35	Viability and Resilience of Complex Systems. <i>Understanding Complex Systems</i> , 2011, , .	0.6	28
36	The "invisible hand" of peer review: The implications of author-referee networks on peer review in a scholarly journal. <i>Journal of Informetrics</i> , 2019, 13, 708-716.	2.9	28

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37	SIMULATING KNOWLEDGE DYNAMICS IN INNOVATION NETWORKS (SKIN). , 2004, , .		28
38	Early Retirement in a Period of High Unemployment. Journal of Social Policy, 1988, 17, 313-333.	1.1	27
39	Joking Apart: Some Recommendations Concerning the Analysis of Scientific Culture. Social Studies of Science, 1982, 12, 585-613.	2.5	26
40	Explanation and dialogue. Knowledge Engineering Review, 1989, 4, 235-247.	2.6	26
41	Towards a living earth simulator. European Physical Journal: Special Topics, 2012, 214, 77-108.	2.6	26
42	Designing and Building an Agent-Based Model. , 2012, , 141-165.		25
43	Experiments Are the Key: Participants' Histories and Historians' Histories of Science. Isis, 1984, 75, 105-125.	0.5	22
44	Assessing peer review by gauging the fate of rejected manuscripts: the case of the Journal of Artificial Societies and Social Simulation. Scientometrics, 2017, 113, 533-546.	3.0	22
45	How to build models for government: criteria driving model acceptance in policymaking. Policy Sciences, 2016, 49, 489-504.	2.8	21
46	Does cumulative advantage affect collective learning in science? An agent-based simulation. Scientometrics, 2011, 89, 437-463.	3.0	17
47	Complexity at the social science interface. Complexity, 2014, 19, 1-4.	1.6	17
48	Dialogue management for telephone information systems. , 1992, , .		16
49	Injecting Data into Agent-Based Simulation. , 2010, , 177-191.		16
50	Simulating the Social Processes of Science. Jasss, 2011, 14, .	1.8	16
51	Modelling Research Policy: Ex-Ante Evaluation of Complex Policy Instruments. Jasss, 2015, 18, .	1.8	16
52	Measuring wiki viability. , 2008, , .		15
53	The role of civil society organisations in European responsible research and innovation. Journal of Responsible Innovation, 2019, 6, 25-49.	4.9	13
54	Agent-Based Modelling of Innovation Networks – The Fairytale of Spillover. Understanding Complex Systems, 2009, , 101-126.	0.6	13

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55	Uses of Agent-Based Modeling for Health Communication: the TELL ME Case Study. Health Communication, 2017, 32, 939-944.	3.1	12
56	Using Sensors to Study Home Activities. Journal of Sensor and Actuator Networks, 2017, 6, 32.	3.9	12
57	Policy evaluation for a complex world: Practical methods and reflections from the UK Centre for the Evaluation of Complexity across the Nexus. Evaluation, 2021, 27, 4-17.	1.8	12
58	Adopting a Whole Systems Approach to Transport Decarbonisation, Air Quality and Health: An Online Participatory Systems Mapping Case Study in the UK. Atmosphere, 2022, 13, 492.	2.3	12
59	Modelling the emergence and dynamics of social and workplace segregation. Mind and Society, 2009, 8, 173-191.	1.3	10
60	Data and models for exploring sustainability of human well-being in global environmental change. European Physical Journal: Special Topics, 2012, 214, 519-545.	2.6	10
61	Self-Organizing Dynamical Systems. , 2015, , 529-534.		10
62	Agent Based Modelling. , 2013, , 247-265.		10
63	Talking about Budgets: Time and Uncertainty in Household Decision Making. Sociology, 1999, 33, 85-103.	2.5	9
64	Emergence and Communication in Computational Sociology. Journal for the Theory of Social Behaviour, 2013, 43, 87-110.	1.2	9
65	DECISION-MAKING PROCESSES FOR PROJECTS REQUIRING ENVIRONMENTAL IMPACT ASSESSMENT: CASE STUDIES IN SIX EUROPEAN COUNTRIES. Journal of Environmental Assessment Policy and Management, 1999, 01, 105-130.	7.9	8
66	Analysing Differential School Effectiveness Through Multilevel and Agent-Based Modelling. Jasss, 2014, 17, .	1.8	8
67	The Quality of Social Simulation: An Example from Research Policy Modelling. Public Administration and Information Technology, 2015, , 35-55.	1.1	7
68	The Epistemologies of Social Simulation Research. Lecture Notes in Computer Science, 2009, , 12-28.	1.3	7
69	A Simulation of Adaptation Mechanisms in Budgetary Decision Making. Lecture Notes in Economics and Mathematical Systems, 1997, , 401-418.	0.3	7
70	Agent-based modelling to predict policy outcomes: A food waste recycling example. Environmental Science and Policy, 2018, 87, 85-91.	4.9	6
71	Participation frameworks for computer mediated communication. , 1991, , 279-291.		6
72	OPEN PROBLEMS IN USING AGENT-BASED MODELS IN INDUSTRIAL AND LABOUR DYNAMICS. , 2004, , .		6

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73	Text, competence and logic: An exercise. <i>Qualitative Sociology</i> , 1986, 9, 215-236.	1.6	5
74	Expert Systems and the Public Provision of Welfare Benefit Advice. <i>Policy and Politics</i> , 1990, 18, 43-54.	2.4	4
75	Models, Processes and Algorithms: Towards A Simulation Toolkit. , 2000, , 3-16.		4
76	Recognising Activities at Home. , 2017, , .		4
77	Co-Designing Social Simulation Models For Policy Advise: Lessons Learned From the INFSo-SKIN Study. , 2019, , .		4
78	DÃ©mographie des communautÃ©s en ligne. Le cas des wikis. <i>RÃ©seaux</i> , 2008, 26, 205-240.	0.4	4
79	Using ABM to Clarify and Refine Social Practice Theory. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 307-319.	0.6	4
80	Decision support in large organizations. <i>Data Processing</i> , 1985, 27, 28-30.	0.0	3
81	Understanding Consumption: What Interviews with Retired Households Can Reveal about Budgetary Decisions. <i>Sociological Research Online</i> , 2001, 6, 1-12.	1.1	3
82	OPEN PROBLEMS IN USING AGENT-BASED MODELS IN INDUSTRIAL AND LABOR DYNAMICS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2004, 07, 285-288.	1.4	3
83	'WHAT DID YOU SAY?' EMERGENT COMMUNICATION IN A MULTI-AGENT SPATIAL CONFIGURATION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010, 13, 469-482.	1.4	3
84	A model of political voting behaviours across different countries. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 413, 609-625.	2.6	3
85	Predicting Appliance Usage Status In Home Like Environments. , 2018, , .		3
86	Sociology and Non-Equilibrium Social Science. <i>Understanding Complex Systems</i> , 2017, , 59-69.	0.6	3
87	Testing Policy Options for Horizon 2020 with SKIN. <i>Understanding Complex Systems</i> , 2014, , 155-183.	0.6	3
88	Simulating Knowledge Dynamics in Innovation Networks: An Introduction. <i>Understanding Complex Systems</i> , 2014, , 1-13.	0.6	3
89	On the nature of rules and conversation. <i>AI and Society</i> , 1995, 9, 356-372.	4.6	2
90	Using Computer Simulation To Study Social Phenomena. <i>BMS Bulletin of Sociological Methodology/ Bulletin De Methodologie Sociologique</i> , 1995, 47, 99-111.	0.8	2

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91	A GENERIC MODEL OF COLLECTIVITIES. <i>Cybernetics and Systems</i> , 2007, 38, 695-706.	2.5	2
92	Understanding Quality in Science: A Proposal and Exploration. , 2010, , .		2
93	Introduction to the special issue on autonomous agents for agent-based modeling. <i>Autonomous Agents and Multi-Agent Systems</i> , 2016, 30, 1021-1022.	2.1	2
94	Hunting the Unicorn. , 2001, , 109-124.		2
95	The electronic alternative: <i>Sociological Research Online</i> . <i>Learned Publishing</i> , 1997, 10, 339-343.	1.7	1
96	Multi-agent simulation applied to on-line music distribution market. , 0, , .		1
97	Agent Based Simulation for Modelling the Distribution of Online Music. , 0, , .		1
98	Technosocial predictive analytics for security informatics. <i>Security Informatics</i> , 2012, 1, .	2.5	1
99	Agent-Based Modelling. , 2014, , 65-84.		1
100	Die Simulation von Lernen in Innovationsnetzwerken. , 2004, , 165-185.		1
101	Manifesto de CiÃªncia Social Computacional. <i>MediaÃŠÃµes: Revista De CiÃªncias Sociais</i> , 2013, 18, 20.	0.1	1
102	Build two-way rapport for better policymaking. <i>Nature</i> , 2018, 556, 174-174.	27.8	1
103	Shaping Written Knowledge: The Genre and Activity of the Experimental Article in Science.Charles Bazerman. <i>American Journal of Sociology</i> , 1989, 95, 811-812.	0.5	0
104	TALKING ABOUT BUDGETS: TIME AND UNCERTAINTY IN HOUSEHOLD DECISION MAKING. <i>Sociology</i> , 1999, 33, 085-103.	2.5	0
105	Going back home. <i>Computational and Mathematical Organization Theory</i> , 2010, 16, 325-328.	2.0	0
106	Symposium on â€œCollective representations of qualityâ€•. <i>Mind and Society</i> , 2011, 10, 165-168.	1.3	0
107	Defining Relevance and Finding Rules: An Agent-Based Model of Biomass Use in the Humber Area. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 373-384.	0.6	0
108	Simulating Innovation: Comparing Models of Collective Knowledge, Technological Evolution and Emergent Innovation Networks. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 189-200.	0.6	0

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109	Starting agent-based modelling. , 0, , 11-28.		0
110	Case-Based Model of Emotional Expression Influence on Work Group Socialization and Performance. , 2007, , 343-354.		0
111	Simulating the Role of MNCs for Knowledge and Capital Dynamics in Networks of Innovation. , 2012, , .		0