Fabio Boschetti

List of Publications by Year
in descending order

85 papers	2,205 citations	279487 23 h-index	243296 44 g-index

87 all docs	87 docs citations	87 times ranked	2336 citing authors

#	Article	IF	Citations
1	An informationâ€theoretic primer on complexity, selfâ€organization, and emergence. Complexity, 2009, 15, 11-28.	0.9	222
2	Analysis of potential field data in the wavelet domain. Geophysical Journal International, 1999, 137, 175-196.	1.0	211
3	A fractalâ€based algorithm for detecting first arrivals on seismic traces. Geophysics, 1996, 61, 1095-1102.	1.4	150
4	Inversion of seismic refraction data using genetic algorithms. Geophysics, 1996, 61, 1715-1727.	1.4	118
5	Measuring cultural values and beliefs about environment to identify their role in climate change responses. Journal of Environmental Psychology, 2014, 37, 8-20.	2.3	117
6	Multiscale edge analysis of potential field data. Exploration Geophysics, 1999, 30, 38-44.	0.5	104
7	A multi-model approach to engaging stakeholder and modellers in complex environmental problems. Environmental Science and Policy, 2015, 48, 44-56.	2.4	70
8	Inferring Geological Structures using Wavelet-Based Multiscale Edge Analysis and Forward Models. Exploration Geophysics, 2000, 31, 617-621.	0.5	67
9	The future of ocean governance. Reviews in Fish Biology and Fisheries, 2022, 32, 253-270.	2.4	56
10	Analyzing social media data: A mixed-methods framework combining computational and qualitative text analysis. Behavior Research Methods, 2019, 51, 1766-1781.	2.3	52
11	Inversion of potential field data by genetic algorithms. Geophysical Prospecting, 1997, 45, 461-478.	1.0	51
12	Interactive inversion in geosciences. Geophysics, 2001, 66, 1226-1234.	1.4	47
13	Inverse modelling in geology by interactive evolutionary computation. Journal of Structural Geology, 2003, 25, 1615-1621.	1.0	45
14	Improved Downward Continuation of Potential Field Data. Exploration Geophysics, 2003, 34, 249-256.	0.5	39
15	Myths of the future and scenario archetypes. Technological Forecasting and Social Change, 2016, 111, 76-85.	6.2	38
16	Assessing attitudes and cognitive styles of stakeholders in environmental projects involving computer modelling. Ecological Modelling, 2012, 247, 98-111.	1.2	37
17	Wavelet Based Inversion of Gravity Data. Exploration Geophysics, 2001, 32, 48-55.	0.5	33
18	Improved edge detection and noise removal in gravity maps via the use of gravity gradients. Journal of Applied Geophysics, 2005, 57, 213-225.	0.9	32

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19	Urban transformation stories for the 21st century: Insights from strategic conversations. Global Environmental Change, 2018, 50, 222-237.	3.6	30
20	Visions of Evolution: Self-organization Proposes What Natural Selection Disposes. Biological Theory, 2008, 3, 17-29.	0.8	29
21	Individual transferable quota contribution to environmental stewardship: a theory in need of validation. Ecology and Society, 2014, 19, .	1.0	28
22	Influence of offshore oil and gas structures on seascape ecological connectivity. Global Change Biology, 2022, 28, 3515-3536.	4.2	28
23	A call for empirically based guidelines for building trust among stakeholders in environmental sustainability projects. Sustainability Science, 2016, 11, 855-859.	2.5	27
24	Deep aspirations: towards a sustainable offshore Blue Economy. Reviews in Fish Biology and Fisheries, 2022, 32, 209-230.	2.4	27
25	Mapping the complexity of ecological models. Ecological Complexity, 2008, 5, 37-47.	1.4	26
26	Defining and Detecting Emergence in Complex Networks. Lecture Notes in Computer Science, 2005, , 573-580.	1.0	23
27	How Computational Models Predict the Behavior of Complex Systems. Foundations of Science, 2013, 18, 809-821.	0.4	22
28	Integrated modelling to support decision-making for marine socialâ€“ecological systems in Australia. ICES Journal of Marine Science, 2017, 74, 2298-2308.	1.2	22
29	Key issues and drivers affecting coastal and marine resource decisions: Participatory management strategy evaluation to support adaptive management. Ocean and Coastal Management, 2015, 116, 382-395.	2.0	21
30	Proactive, Reactive, and Inactive Pathways for Scientists in a Changing World. Earth's Future, 2019, 7, 60-73.	2.4	21
31	Testing the consistency between goals and policies for sustainable development: mental models of how the world works today are inconsistent with mental models of how the world will work in the future. Sustainability Science, 2017, 12, 45-64.	2.5	18
32	Self-referential basis of undecidable dynamics: From the Liar paradox and the halting problem to the edge of chaos. Physics of Life Reviews, 2019, 31, 134-156.	1.5	16
33	Feature removal and isolation in potential field data. Geophysical Journal International, 2004, 159, 833-841.	1.0	15
34	Of sets of offsets: Cumulative impacts and strategies for compensatory restoration. Ecological Modelling, 2015, 312, 114-124.	1.2	15
35	Modelling and attitudes towards the future. Ecological Modelling, 2016, 322, 71-81.	1.2	14
36	Clarifying the current role of a social licence in its legal and political context: An examination of mining in Western Australia. Resources Policy, 2020, 67, 101649.	4.2	14

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37	Interactive modelling for natural resource management. Environmental Modelling and Software, 2010, 25, 1075-1085.	1.9	13
38	ATTITUDES, IDEOLOGIES AND SELF-ORGANIZATION: INFORMATION LOAD MINIMIZATION IN MULTI-AGENT DECISION MAKING. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1350029.	0.9	13
39	Citizensâ€™ Views of Australiaâ€™s Future to 2050. Sustainability, 2015, 7, 222-247.	1.6	13
40	Setting priorities for conservation at the interface between ocean circulation, connectivity, and population dynamics. Ecological Applications, 2020, 30, e02011.	1.8	13
41	Effective exploration and visualization of geological parameter space. Geochemistry, Geophysics, Geosystems, 2003, 4, .	1.0	12
42	Estimation of the mass density contrasts and the 3D geometrical shape of the source bodies in the Yilgarn area, Eastern Goldfields, Western Australia. Journal of Geodynamics, 2005, 39, 444-460.	0.7	12
43	Drivers influencing adaptive management: a retrospective evaluation of water quality decisions in South East Queensland (Australia). Ambio, 2014, 43, 1069-1081.	2.8	12
44	Citizensâ€™ perception of the resilience of Australian cities. Sustainability Science, 2017, 12, 345-364.	2.5	12
45	Knowledge that Acts: Evaluating the Outcomes of a Knowledge Brokering Intervention in Western Australiaâ€™s Ningaloo Region. Environmental Management, 2017, 60, 896-907.	1.2	12
46	Strategies for resource exploitation. Ecological Complexity, 2008, 5, 22-29.	1.4	11
47	Modelling=conditional prediction. Ecological Complexity, 2011, 8, 86-91.	1.4	11
48	A simulation interface designed for improved user interaction and learning in water quality modelling software. Environmental Modelling and Software, 2015, 70, 86-96.	1.9	11
49	Complexity of a modelling exercise: A discussion of the role of computer simulation in complex system science. Complexity, 2008, 13, 21-28.	0.9	9
50	Understanding societal approval of the fishing industry and the influence of thirdâ€party sustainability certification. Fish and Fisheries, 2021, 22, 1213-1226.	2.7	9
51	Density of reef sharks estimated by applying an agent-based model to video surveys. Marine Ecology - Progress Series, 2014, 508, 201-209.	0.9	9
52	Dimensionality reduction and visualization of geoscientific images via locally linear embedding. Computers and Geosciences, 2005, 31, 689-697.	2.0	8
53	Improving resource exploitation via collective intelligence by assessing agents' impact on the community outcome. Ecological Economics, 2007, 63, 553-562.	2.9	8
54	Quantitative Foresighting as a Means of Improving Anticipatory Scientific Capacity and Strategic Planning. One Earth, 2020, 3, 631-644.	3.6	8

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55	Foresighting future oceans: Considerations and opportunities. Marine Policy, 2022, 140, 105021.	1.5	7
56	Measure of similarity between geological sections accounting for subjective criteria. Computers and Geosciences, 2005, 31, 29-34.	2.0	6
57	An information-based adaptive strategy for resource exploitation in competitive scenarios. Technological Forecasting and Social Change, 2009, 76, 525-532.	6.2	6
58	Modelling regional futures at decadal scale: application to the Kimberley region. Scientific Reports, 2020, 10, 849.	1.6	6
59	A Turing Test for Emergence. Advanced Information and Knowledge Processing, 2008, , 349-364.	0.2	6
60	The Quantum Inspired Modelling of Changing Attitudes and Self-organising Societies. Lecture Notes in Computer Science, 2012, , 1-12.	1.0	6
61	A local linear embedding module for evolutionary computation optimization. Journal of Heuristics, 2008, 14, 95-116.	1.1	5
62	A computational model of a mental model used to reason about climate change. Environmental Science and Policy, 2012, 15, 125-135.	2.4	5
63	Perceptions of system-identity and regime shift for marine ecosystems. ICES Journal of Marine Science, 2019, 76, 1736-1747.	1.2	5
64	Analysing Weighted Networks: An Approach via Maximum Flows. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 1093-1104.	0.2	5
65	Zone specific trends in coral cover, genera and growth-forms in the World-Heritage listed Ningaloo Reef. Marine Environmental Research, 2020, 160, 105020.	1.1	5
66	Controlling and investigating cellular automaton behavior via interactive inversion and visualization of the search space. New Generation Computing, 2005, 23, 157-169.	2.5	4
67	Automatic detection of particle aggregation in particle code simulations of rock deformation. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	4
68	Causality, emergence, computation and unreasonable expectations. SynthÃˆse, 2011, 181, 405-412.	0.6	4
69	Models and people: An alternative view of the emergent properties of computational models. Complexity, 2016, 21, 202-213.	0.9	4
70	On Decision Makersâ€™ Perceptions of What an Ecological Computer Model is, What It Does, and Its Impact on Limiting Model Acceptance. Sustainability, 2018, 10, 2767.	1.6	4
71	Information-theoretic measures of ecosystem change, sustainability, and resilience. ICES Journal of Marine Science, 2020, 77, 1532-1544.	1.2	4
72	Sectoral Futures Are Conditional on Choices of Global and National Scenarios â€“ Australian Marine Examples. Frontiers in Marine Science, 2020, 7, .	1.2	4

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73	On â€œ3â€Ð inversion of gravity and magnetic data with depth resolutionâ€•(Maurizio Fedi and Antonio) Tj ETQq1 1 0.784314 rgBT	1.4	3
74	Application of Computational Mechanics to the Analysis of Seismic Time-series via Numerical Optimisation. New Generation Computing, 2008, 27, 1-23.	2.5	3
75	Commons and anticommons in a simple renewable resource harvest model. Ecological Complexity, 2009, 6, 56-63.	1.4	3
76	Detecting behaviours in ecological models. Ecological Complexity, 2010, 7, 76-85.	1.4	3
77	Causality, emergence, computation and unreasonable expectations. SynthÂˆse, 2012, 185, 187-194.	0.6	3
78	Myths of the City. Sustainability Science, 2017, 12, 611-620.	2.5	3
79	How the movement characteristics of large marine predators influence estimates of their abundance. Ecological Modelling, 2015, 313, 223-236.	1.2	2
80	Mental models, communication, and engagement in marine projects. ICES Journal of Marine Science, 2017, 74, 2034-2039.	1.2	2
81	Declining abundance of coral reef fish in a World-Heritage-listed marine park. Scientific Reports, 2019, 9, 15524.	1.6	2
82	A new approach to the acquisition of potential field data. Journal of Geodynamics, 2007, 43, 248-261.	0.7	1
83	A probabilistic approach to exploring low-dimensional global dynamics. Procedia Environmental Sciences, 2011, 6, 122-135.	1.3	1
84	Novel Properties Generated by Interacting Computational Systems. Complex Systems, 2011, 20, 151-164.	0.9	1
85	What if your Inversion has no Numerical Target?. ASEG Extended Abstracts, 2003, 2003, 1-5.	0.1	1