Mark Gahegan

List of Publications by Year
in descending order

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Version: 2024-02-01

35 papers	2,527 citations	304602 22 h-index	454834 30 g-index
36 all docs	36 docs citations	36 times ranked	2716 citing authors

#	Article	IF	Citations
1	Visualizing Geospatial Information Uncertainty: What We Know and What We Need to Know. Cartography and Geographic Information Science, 2005, 32, 139-160.	1.4	413
2	Geospatial Cyberinfrastructure: Past, present and future. Computers, Environment and Urban Systems, 2010, 34, 264-277.	3.3	286
3	Biodiversity data should be published, cited, and peer reviewed. Trends in Ecology and Evolution, 2013, 28, 454-461.	4.2	193
4	Visual Semiotics & Uncertainty Visualization: An Empirical Study. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2496-2505.	2.9	185
5	Geovisualization for knowledge construction and decision support. IEEE Computer Graphics and Applications, 2004, 24, 13-17.	1.0	180
6	GeoVISTA Studio: a codeless visual programming environment for geoscientific data analysis and visualization. Computers and Geosciences, 2002, 28, 1131-1144.	2.0	146
7	Multivariate Analysis and Geovisualization with an Integrated Geographic Knowledge Discovery Approach. Cartography and Geographic Information Science, 2005, 32, 113-132.	1.4	124
8	Introducing GeoVISTA Studio: an integrated suite of visualization and computational methods for exploration and knowledge construction in geography. Computers, Environment and Urban Systems, 2002, 26, 267-292.	3.3	84
9	A typology for visualizing uncertainty. , 2005, 5669, 146.		82
10	The Integration of Geographic Visualization with Knowledge Discovery in Databases and Geocomputation. Cartography and Geographic Information Science, 2001, 28, 29-44.	1.4	78
11	A framework for the modelling of uncertainty between remote sensing and geographic information systems. ISPRS Journal of Photogrammetry and Remote Sensing, 2000, 55, 176-188.	4.9	77
12	Is inductive machine learning just another wild goose (or might it lay the golden egg)?. International Journal of Geographical Information Science, 2003, 17, 69-92.	2.2	76
13	On the Application of Inductive Machine Learning Tools to Geographical Analysis. Geographical Analysis, 2000, 32, 113-139.	1.9	73
14	Four barriers to the development of effective exploratory visualisation tools for the geosciences. International Journal of Geographical Information Science, 1999, 13, 289-309.	2.2	57
15	ICEAGE: Interactive Clustering and Exploration of Large and High-Dimensional Geodata. GeoInformatica, 2003, 7, 229-253.	2.0	56
16	INFORMATION SCIENCE: Enhanced: Cybertools and Archaeology. Science, 2006, 311, 958-959.	6.0	53
17	A Genetic Approach to Detecting Clusters in Point Data Sets. Geographical Analysis, 2005, 37, 286-314.	1.9	46
18	A Situated Knowledge Representation of Geographical Information. Transactions in GIS, 2006, 10, 727-749.	1.0	46

#	Article	IF	Citations
19	Fourth paradigm GIScience? Prospects for automated discovery and explanation from data. International Journal of Geographical Information Science, 2020, 34, 1-21.	2.2	35
20	Connecting GEON: Making sense of the myriad resources, researchers and concepts that comprise a geoscience cyberinfrastructure. Computers and Geosciences, 2009, 35, 836-854.	2.0	32
21	Spatial ordering and encoding for geographic data mining and visualization. Journal of Intelligent Information Systems, 2006, 27, 243-266.	2.8	28
22	Plant Pathogen Culture Collections: It Takes a Village to Preserve These Resources Vital to the Advancement of Agricultural Security and Plant Pathology. Phytopathology, 2006, 96, 920-925.	1.1	26
23	Scatterplots and scenes: visualisation techniques for exploratory spatial analysis. Computers, Environment and Urban Systems, 1998, 22, 43-56.	3.3	24
24	Visualization for constructing and sharing geo-scientific concepts. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5279-5286.	3.3	24
25	Beyond Tools. , 2005, , 83-99.		21
26	Improving neural network performance on the classification of complex geographic datasets. Journal of Geographical Systems, 1999, 1, 3-22.	1.9	17
27	Specifying the transformations within and between geographic data models. Transactions in GIS, 1996, 1, 137-152.	1.0	14
28	Computational and Visual Support for Geographical Knowledge Construction: Filling in the Gaps Between Exploration and Explanation. , 2002, , 11-25.		13
29	The Integration of Scene Understanding within a Geographic Information System: A Prototype Approach for Agricultural Applications. Transactions in GIS, 1999, 3, 31-49.	1.0	11
30	A Strategy and Architecture for the Visualization of Complex Geographical Datasets. International Journal of Pattern Recognition and Artificial Intelligence, 1997, 11, 239-261.	0.7	10
31	Visual Exploration and Explanation in Geography Analysis with Light. Chapman & Hall/CRC Data Mining and Knowledge Discovery Series, 2009, , 291-324.	0.2	5
32	Re-Envisioning Data Description Using Peirceâ€™s Pragmatics. Lecture Notes in Computer Science, 2014, , 142-158.	1.0	5
33	GeoVISTA Studio: Reusability by Design. Advances in Geographic Information Science, 2008, , 201-220.	0.3	5
34	Representing, Manipulating and Reasoning with Geographic Semantics within a Knowledge Framework. , 2005, , 585-603.		1
35	Geovisualisation as an Analytical Toolbox for Discovery. , 2014, , 97-124.		1