

Alan M Maceachren

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2565383/alan-m-maceachren-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

5,365
citations

40
h-index

70
g-index

133
ext. papers

6,005
ext. citations

2.6
avg, IF

5.78
L-index

#	Paper	IF	Citations
124	Research Challenges in Geovisualization. <i>Cartography and Geographic Information Science</i> , 2001 , 28, 3-12	2.1	364
123	Visualizing Geospatial Information Uncertainty: What We Know and What We Need to Know. <i>Cartography and Geographic Information Science</i> , 2005 , 32, 139-160	2.1	328
122	Exploratory cartographic visualization: Advancing the agenda. <i>Computers and Geosciences</i> , 1997 , 23, 335-343	1.4	213
121	Visualizing Uncertain Information. <i>Cartographic Perspectives</i> , 1992 , 10-19	1	206
120	A visualization system for space-time and multivariate patterns (VIS-STAMP). <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2006 , 12, 1461-74	4	197
119	SensePlace2: GeoTwitter analytics support for situational awareness 2011 ,		193
118	Animation and the Role of Map Design in Scientific Visualization. <i>Cartography and Geographic Information Science</i> , 1992 , 19, 201-214		177
117	Geovisualization for knowledge construction and decision support. <i>IEEE Computer Graphics and Applications</i> , 2004 , 24, 13-7	1.7	136
116	Visualization in Modern Cartography: Setting the Agenda. <i>Modern Cartography Series</i> , 1994 , 1-12	0.1	136
115	Visual Semiotics & Uncertainty Visualization: An Empirical Study. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012 , 18, 2496-505	4	134
114	Developing a conceptual framework for visually-enabled geocollaboration. <i>International Journal of Geographical Information Science</i> , 2004 , 18, 1-34	4.1	133
113	Constructing knowledge from multivariate spatiotemporal data: integrating geographical visualization with knowledge discovery in database methods. <i>International Journal of Geographical Information Science</i> , 1999 , 13, 311-334	4.1	123
112	Geovisual analytics to enhance spatial scan statistic interpretation: an analysis of U.S. cervical cancer mortality. <i>International Journal of Health Geographics</i> , 2008 , 7, 57	3.5	119
111	Multivariate Analysis and Geovisualization with an Integrated Geographic Knowledge Discovery Approach. <i>Cartography and Geographic Information Science</i> , 2005 , 32, 113-132	2.1	104
110	Visualizing Georeferenced Data: Representing Reliability of Health Statistics. <i>Environment and Planning A</i> , 1998 , 30, 1547-1561	2.7	92
109	It's a long, long walk: accessibility to hospitals, maternity and integrated health centers in Niger. <i>International Journal of Health Geographics</i> , 2012 , 11, 24	3.5	91
108	How to Assess Visual Communication of Uncertainty? A Systematic Review of Geospatial Uncertainty Visualisation User Studies. <i>Cartographic Journal</i> , 2014 , 51, 372-386	0.7	89

107	A PATTERN IDENTIFICATION APPROACH TO CARTOGRAPHIC VISUALIZATION. <i>Cartographica</i> , 1990 , 27, 64-81	0.7	80
106	Combining Usability Techniques to Design Geovisualization Tools for Epidemiology. <i>Cartography and Geographic Information Science</i> , 2005 , 32, 243-255	2.1	78
105	Evaluating the usability of visualization methods in an exploratory geovisualization environment. <i>International Journal of Geographical Information Science</i> , 2006 , 20, 425-448	4.1	77
104	A Comparison of Animated Maps with Static Small-Multiple Maps for Visually Identifying Space-Time Clusters. <i>Annals of the American Association of Geographers</i> , 2006 , 96, 740-753		75
103	Compactness of Geographic Shape: Comparison and Evaluation of Measures. <i>Geografiska Annaler, Series B: Human Geography</i> , 1985 , 67, 53-67	1.6	65
102	Interface Design for Geographic Visualization: Tools for Representing Reliability. <i>Cartography and Geographic Information Science</i> , 1996 , 23, 59-77		63
101	Enabling collaborative geoinformation access and decision-making through a natural, multimodal interface. <i>International Journal of Geographical Information Science</i> , 2005 , 19, 293-317	4.1	58
100	Compactness of Geographic Shape: Comparison and Evaluation of Measures		58
99	User-Centered Design for Interactive Maps: A Case Study in Crime Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2015 , 4, 262-301	2.9	57
98	Geo-Located Tweets. Enhancing Mobility Maps and Capturing Cross-Border Movement. <i>PLoS ONE</i> , 2015 , 10, e0129202	3.7	55
97	Challenging problems of geospatial visual analytics. <i>Journal of Visual Languages and Computing</i> , 2011 , 22, 251-256		55
96	Developing a Geographic Visualization Tool to Support Earth Science Learning. <i>Cartography and Geographic Information Science</i> , 2000 , 27, 279-293	2.1	55
95	Designing a human-centered, multimodal GIS interface to support emergency management 2002 ,		54
94	A typology for visualizing uncertainty 2005 , 5669, 146		53
93	Sampling and Isometric Mapping of Continuous Geographic Surfaces. <i>The American Cartographer</i> , 1987 , 14, 299-320		52
92	Evaluating the effect of visually represented geodata uncertainty on decision-making: systematic review, lessons learned, and recommendations. <i>Cartography and Geographic Information Science</i> , 2017 , 44, 1-21	2.1	49
91	GeoCorpora: building a corpus to test and train microblog geoparsers. <i>International Journal of Geographical Information Science</i> , 2018 , 32, 1-29	4.1	45
90	Supporting visual analysis of federal geospatial statistics. <i>Communications of the ACM</i> , 2003 , 46, 59-60	2.5	45

89	Application of Environmental Learning Theory to Spatial Knowledge Acquisition from Maps. <i>Annals of the American Association of Geographers</i> , 1992 , 82, 245-274		45
88	TRAVEL TIME AS THE BASIS OF COGNITIVE DISTANCE* *I would like to thank George F. McCleary Jr. for his advice at various stages of the study as well as for his comments on earlier drafts of this paper.. <i>Professional Geographer</i> , 1980 , 32, 30-36	1.7	41
87	Visualization for exploration of spatial data. <i>International Journal of Geographical Information Science</i> , 1999 , 13, 285-287	4.1	37
86	Animated Maps of Aggregate Data: Conceptual and Practical Problems. <i>Cartography and Geographic Information Science</i> , 1991 , 18, 221-229		37
85	Map Complexity: Comparison and Measurement. <i>The American Cartographer</i> , 1982 , 9, 31-46		36
84	Conditioned Choropleth Maps and Hypothesis Generation. <i>Annals of the American Association of Geographers</i> , 2005 , 95, 32-53		35
83	Design and Implementation of a Model, Web-based, GIS-Enabled Cancer Atlas. <i>Cartographic Journal</i> , 2008 , 45, 246-260	0.7	33
82	Visual Exploration and Analysis of Historic Hotel Visits. <i>Information Visualization</i> , 2007 , 6, 89-103	2.4	33
81	Virtual environments for geographic visualization 1999 ,		33
80	The Role of Complexity and Symbolization Method in Thematic Map Effectiveness. <i>Annals of the American Association of Geographers</i> , 1982 , 72, 495-513		33
79	GeoTxt: A scalable geoparsing system for unstructured text geolocation. <i>Transactions in GIS</i> , 2019 , 23, 118-136	2.1	32
78	Building a geocollaboratory: Supporting HumanEnvironment Regional Observatory (HERO) collaborative science activities. <i>Computers, Environment and Urban Systems</i> , 2006 , 30, 201-225	5.9	32
77	Supporting Group Work in Crisis Management: Visually Mediated Human [GIS] Human Dialogue. <i>Environment and Planning B: Planning and Design</i> , 2006 , 33, 435-456		30
76	Exploring High-D Spaces with Multiform Matrices and Small Multiples 2003 , 31-38		30
75	Spatiotemporal crime analysis in U.S. law enforcement agencies: Current practices and unmet needs. <i>Government Information Quarterly</i> , 2013 , 30, 226-240	7.6	27
74	Informing geospatial toolset design: understanding the process of cancer data exploration and analysis. <i>Health and Place</i> , 2008 , 14, 576-607	4.6	27
73	Distributed usability evaluation of the Pennsylvania Cancer Atlas. <i>International Journal of Health Geographics</i> , 2008 , 7, 36	3.5	26
72	Designing a web-based learning portal for geographic visualization and analysis in public health. <i>Health Informatics Journal</i> , 2011 , 17, 191-208	3	25

71	Geovisual analytics to support crisis management: Information foraging for geo-historical context. <i>Information Visualization</i> , 2012 , 11, 339-359	2.4	24
70	Learning Spatial Information from Maps: Can Orientation-Specificity Be Overcome?* *This research was supported by a grant from the Faculty Research Fund, College of Earth and Mineral Sciences, The Pennsylvania State University. The support is greatly appreciated. I also wish to thank Tom Davinroy who assisted with data collection and analysis and Judy Olson and Roger Downs for	1.7	24
69	SensePlace3: a geovisual framework to analyze place-time attribute information in social media. <i>Cartography and Geographic Information Science</i> , 2018 , 45, 420-437	2.1	23
68	Visually-Enabled Active Deep Learning for (Geo) Text and Image Classification: A Review. <i>ISPRS International Journal of Geo-Information</i> , 2018 , 7, 65	2.9	23
67	GeoTxt 2013 ,		23
66	Moving Geovisualization toward Support for Group Work 2005 , 445-461		23
65	Supporting the Process of Exploring and Interpreting Space-Time Multivariate Patterns: The Visual Inquiry Toolkit. <i>Cartography and Geographic Information Science</i> , 2008 , 35, 33-50	2.1	22
64	Supporting geographically-aware web document foraging and sensemaking. <i>Computers, Environment and Urban Systems</i> , 2011 , 35, 192-207	5.9	20
63	Natural Conversational Interfaces to Geospatial Databases. <i>Transactions in GIS</i> , 2005 , 9, 199-221	2.1	20
62	An evolving cognitive-semiotic approach to geographic visualization and knowledge construction. <i>Information Design Journal</i> , 2001 , 10, 26-36	0.4	20
61	Symbol Store: sharing map symbols for emergency management. <i>Cartography and Geographic Information Science</i> , 2013 , 40, 415-426	2.1	19
60	Visualization for constructing and sharing geo-scientific concepts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101 Suppl 1, 5279-86	11.5	19
59	Card Sorting For Cartographic Research and Practice. <i>Cartography and Geographic Information Science</i> , 2011 , 38, 89-99	2.1	18
58	Geovisualization and GIScience. <i>Cartography and Geographic Information Science</i> , 2005 , 32, 67-68	2.1	17
57	Geovisual analytics and the science of interaction: an empirical interaction study. <i>Cartography and Geographic Information Science</i> , 2016 , 43, 30-54	2.1	16
56	Geovisual Analytics Approach to Exploring Public Political Discourse on Twitter. <i>ISPRS International Journal of Geo-Information</i> , 2015 , 4, 337-366	2.9	16
55	Human-GIS interaction issues in crisis response. <i>International Journal of Risk Assessment and Management</i> , 2006 , 6, 388	0.9	16
54	Developing Map Symbol Standards through an Iterative Collaboration Process. <i>Environment and Planning B: Planning and Design</i> , 2012 , 39, 1034-1048		15

53	A Linear View of the World: Strip Maps as a Unique Form of Cartographic Representation. <i>The American Cartographer</i> , 1986 , 13, 7-26		15
52	Leveraging Big (Geo) Data with (Geo) Visual Analytics: Place as the Next Frontier. <i>Advances in Geographic Information Science</i> , 2017 , 139-155	0.3	15
51	Communicating Vague Spatial Concepts in Human-GIS Interactions: A Collaborative Dialogue Approach. <i>Lecture Notes in Computer Science</i> , 2003 , 287-300	0.9	14
50	Advancing Geovisualization 2005 , 691-703		14
49	Cognitive Themes Emerging from Air Photo Interpretation Texts Published to 1960. <i>ISPRS International Journal of Geo-Information</i> , 2015 , 4, 551-571	2.9	13
48	HerbariaViz: A web-based client-server interface for mapping and exploring flora observation data. <i>Ecological Informatics</i> , 2011 , 6, 93-110	4.2	13
47	Constructing overview+detail dendrogram-matrix views. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009 , 15, 889-96	4	13
46	Multivariate Display of Geographic Data: Applications in Earth System Science. <i>Modern Cartography Series</i> , 1994 , 2, 287-312	0.1	13
45	Cartography as an Academic Field: A Lost Opportunity or a New Beginning?. <i>Cartographic Journal</i> , 2013 , 50, 166-170	0.7	12
44	Tracing Conceptual and Geospatial Diffusion of Knowledge. <i>Lecture Notes in Computer Science</i> , 2007 , 265-274	0.9	11
43	A geovisual analytic approach to understanding geo-social relationships in the international trade network. <i>PLoS ONE</i> , 2014 , 9, e88666	3.7	10
42	Construction and first analysis of a corpus for the evaluation and training of microblog/twitter geoparsers 2014 ,		10
41	Guest Editors Introduction: Exploring Geovisualization. <i>IEEE Computer Graphics and Applications</i> , 2006 , 26, 20-21	1.7	10
40	Map-Mediated GeoCollaborative Crisis Management. <i>Lecture Notes in Computer Science</i> , 2005 , 429-435	0.9	10
39	MENTAL IMAGE TRANSFORMATIONS IN TERRAIN MAP COMPARISON. <i>Cartographica</i> , 1992 , 29, 46-59	0.7	10
38	Geoinformation Technologies to Support Collaborative Emergency Management. <i>Integrated Series on Information Systems</i> , 2008 , 395-420		10
37	The roles of social domains, behavioral risk, health care resources, and chlamydia in spatial clusters of US cervical cancer mortality: not all the clusters are the same. <i>Cancer Causes and Control</i> , 2010 , 21, 1669-83	2.8	9
36	Spatial-social network visualization for exploratory data analysis 2011 ,		8

35	Retooling Collaboration: A Vision for Environmental Change Research. <i>Environment</i> , 2005 , 47, 8-21	2.8	8
34	Visual Analysis of Historic Hotel Visitation Patterns 2006 ,		8
33	Geo-historical context support for information foraging and sensemaking: Conceptual model, implementation, and assessment 2010 ,		7
32	Integrating scientific modeling and supporting dynamic hazard management with a GeoAgent-based representation of humanEnvironment interactions: A drought example in Central Pennsylvania, USA. <i>Environmental Modelling and Software</i> , 2009 , 24, 1501-1512	5.2	7
31	HEALTH GeoJunction: place-time-concept browsing of health publications. <i>International Journal of Health Geographics</i> , 2010 , 9, 23	3.5	7
30	Multimodal interface platform for geographical information systems (GeoMIP) in crisis management 2004 ,		7
29	The Evolution of Computer Mapping and Its Implications for Geography. <i>Journal of Geography</i> , 1987 , 86, 100-108	1.5	7
28	GeoAnnotator: A Collaborative Semi-Automatic Platform for Constructing Geo-Annotated Text Corpora. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 161	2.9	6
27	The geography of sentiment towards the Women's March of 2017. <i>PLoS ONE</i> , 2020 , 15, e0233994	3.7	6
26	A geovisual analytics exploration of the OpenStreetMap crowd. <i>Cartography and Geographic Information Science</i> , 2018 , 45, 140-155	2.1	5
25	Graph-based visual analysis for large-scale hydrological modeling. <i>Information Visualization</i> , 2017 , 16, 205-216	2.4	5
24	GeoDialogue: A Software Agent Enabling Collaborative Dialogues between a User and a Conversational GIS 2008 ,		4
23	Characterizing traveling fans: a workflow for event-oriented travel pattern analysis using Twitter data. <i>International Journal of Geographical Information Science</i> , 2020 , 34, 2497-2516	4.1	3
22	Resolution Control for Balancing Overview + Detail in Spatial, Multivariate Analysis. <i>Cartographic Journal</i> , 2008 , 45, 261-273	0.7	3
21	Augmenting geovisual analytics of social media data with heterogeneous information network mining-Cognitive plausibility assessment. <i>PLoS ONE</i> , 2018 , 13, e0206906	3.7	3
20	Report on New Methods for Representing and Interacting with Qualitative Geographic Information, Stage 2: Task Group 1 Core Re-engineering and Place-based Use Case 2013 ,		3
19	TIN-based Tag Map Layout. <i>Cartographic Journal</i> , 2019 , 56, 101-116	0.7	2
18	Utility and usability of intrinsic tag maps. <i>Cartography and Geographic Information Science</i> , 2020 , 47, 291-304		2

17	Exploring Regional Variation in Spatial Language Using Spatially Stratified Web-Sampled Route Direction Documents. <i>Spatial Cognition and Computation</i> , 2014 , 14, 255-283	1.3	2
16	A workflow learning model to improve geovisual analytics utility 2009 ,		2
15	Report on New Methods for Representing and Interacting with Qualitative Geographic Information, Stage 2: Task Group 3: Social-focused Use Case 2014 ,		2
14	GeoCAM: A geovisual analytics workspace to contextualize and interpret statements about movement. <i>Journal of Spatial Information Science</i> , 2011 ,	1.1	2
13	Exploring Descriptions of Movement Through Geovisual Analytics.. <i>KN - Journal of Cartography and Geographic Information</i> , 2022 , 72, 1-23	2.7	2
12	Exploratory Cartographic Visualisation: Advancing the Agenda 2011 , 83-88		1
11	Grand challenge award: Data integration visualization and collaboration in the VAST 2008 Challenge 2008 ,		1
10	Map Use and Map Making Education: Attention to Sources of Geographic Information. <i>Cartographic Journal</i> , 1986 , 23, 115-122	0.7	1
9	A SPATIAL AND TOPICAL ASSESSMENT OF DIGITAL GEOGRAPHIC DATABASE ACTIVITIES IN THE U.S.* *;I would like to thank Rand McNally-Infomap for permission to use data presented here; Gary Andrew, Sam Fisher, Harry Grout, and Alan Muramoto for their contributions to the project; Sally Bay Cornwell, who consulted on the project; the many persons contacted by phone, who provided information and advice; David Theobald, who produced the maps and ran most of the data	1.7	1
8	Differentiating geographic movement described in text documents. <i>Transactions in GIS</i> , 1986 , 36, 397-405	2.1	1
7	Developing Lightweight, Data-Driven Exploratory Geo-Visualization Tools for the Web 2002 , 487-500		1
6	(re)Considering Bertin in the age of big data and visual analytics. <i>Cartography and Geographic Information Science</i> , 2019 , 46, 101-118	2.1	1
5	Research Challenges in Geovisualization. <i>KN - Journal of Cartography and Geographic Information</i> , 2001 , 51, 204-207	2.7	0
4	Navigation in desktop-basierten geo-virtuellen Welten. <i>KN - Journal of Cartography and Geographic Information</i> , 2001 , 51, 132-142	2.7	
3	Kartographische Lernumgebungen im behdlichen Internetangebot. <i>KN - Journal of Cartography and Geographic Information</i> , 2006 , 56, 296-303	2.7	
2	Krisenmanagement mit modernen Geoinformationstechnologien. <i>KN - Journal of Cartography and Geographic Information</i> , 2007 , 57, 92-99	2.7	
1	Advancing the theory and practice of system evaluation: a case study in geovisual analytics of social media. <i>International Journal of Cartography</i> , 2020 , 6, 202-221	1.1	