

Max J Egenhofer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10731697/publications.pdf>

Version: 2024-02-01

79
papers

6,134
citations

136740

32
h-index

88477

70
g-index

82
all docs

82
docs citations

82
times ranked

1991
citing authors

#	ARTICLE	IF	CITATIONS
1	Point-set topological spatial relations. International Journal of Geographical Information Science, 1991, 5, 161-174.	2.2	1,188
2	Reasoning about binary topological relations. Lecture Notes in Computer Science, 1991, , 141-160.	1.0	329
3	Using Ontologies for Integrated Geographic Information Systems. Transactions in GIS, 2002, 6, 231-257.	1.0	328
4	Query Processing in Spatial-Query-by-Sketch. Journal of Visual Languages and Computing, 1997, 8, 403-424.	1.8	248
5	Identity-based change: a foundation for spatio-temporal knowledge representation. International Journal of Geographical Information Science, 2000, 14, 207-224.	2.2	227
6	Toward the semantic geospatial web. , 2002, , .		220
7	Comparing geospatial entity classes: an asymmetric and context-dependent similarity measure. International Journal of Geographical Information Science, 2004, 18, 229-256.	2.2	209
8	Naive Geography. Lecture Notes in Computer Science, 1995, , 1-15.	1.0	208
9	Modeling Moving Objects over Multiple Granularities. Annals of Mathematics and Artificial Intelligence, 2002, 36, 177-194.	0.9	205
10	Reasoning about gradual changes of topological relationships. Lecture Notes in Computer Science, 1992, , 196-219.	1.0	198
11	Modelling topological spatial relations: Strategies for query processing. Computers and Graphics, 1994, 18, 815-822.	1.4	188
12	A formal definition of binary topological relationships. Lecture Notes in Computer Science, 1989, , 457-472.	1.0	179
13	Research Paper. International Journal of Geographical Information Science, 1994, 8, 129-142.	2.2	172
14	Deriving the Composition of Binary Topological Relations. Journal of Visual Languages and Computing, 1994, 5, 133-149.	1.8	161
15	On the equivalence of topological relations. International Journal of Geographical Information Science, 1995, 9, 133-152.	2.2	150
16	Modelling conceptual neighbourhoods of topological line-region relations. International Journal of Geographical Information Science, 1995, 9, 555-565.	2.2	123
17	Human conceptions of spaces: Implications for GIS. Transactions in GIS, 1997, 2, 361-375.	1.0	123
18	Progressive Transmission of Vector Map Data over the World Wide Web. Geoinformatica, 2001, 5, 345-373.	2.0	109

#	ARTICLE	IF	CITATIONS
19	Similarity of Cardinal Directions. Lecture Notes in Computer Science, 2001, , 36-55.	1.0	100
20	A conceptual model of wayfinding using multiple levels of abstraction. Lecture Notes in Computer Science, 1992, , 348-367.	1.0	95
21	Metric details for natural-language spatial relations. ACM Transactions on Information Systems, 1998, 16, 295-321.	3.8	94
22	Introduction to the Varenus project. International Journal of Geographical Information Science, 1999, 13, 731-745.	2.2	88
23	A topological data model for spatial databases. Lecture Notes in Computer Science, 1990, , 271-286.	1.0	74
24	Why not SQL!. International Journal of Geographical Information Science, 1992, 6, 71-85.	2.2	66
25	Evaluating and refining computational models of spatial relations through cross-linguistic human-subjects testing. Lecture Notes in Computer Science, 1995, , 553-568.	1.0	63
26	Spatial Scene Similarity Queries. Transactions in GIS, 2008, 12, 661-681.	1.0	58
27	Progress in computational methods for representing geographical concepts. International Journal of Geographical Information Science, 1999, 13, 775-796.	2.2	54
28	Modelling spatial relations and operations with partially ordered sets. International Journal of Geographical Information Science, 1993, 7, 215-229.	2.2	51
29	Assessing Semantic Similarities among Geospatial Feature Class Definitions. Lecture Notes in Computer Science, 1999, , 189-202.	1.0	48
30	Algorithms for Hierarchical Spatial Reasoning. Geoinformatica, 1997, 1, 251-273.	2.0	45
31	Topological relations in the world of minimum bounding rectangles. SIGMOD Record, 1995, 24, 92-103.	0.7	39
32	Visualization in an early stage of the problem-solving process in GIS. Computers and Geosciences, 2000, 26, 57-66.	2.0	38
33	A visual tool for querying geographic databases. , 2000, , .		37
34	Spherical Topological Relations. Lecture Notes in Computer Science, 2005, , 25-49.	1.0	35
35	Consistency among parts and aggregates: A computational model. Transactions in GIS, 1996, 1, 189-206.	1.0	32
36	Qualitative representation of change. Lecture Notes in Computer Science, 1997, , 15-33.	1.0	32

#	ARTICLE	IF	CITATIONS
37	Modeling Cyclic Change. Lecture Notes in Computer Science, 1999, , 98-109.	1.0	31
38	Structuring space with image schemata: Wayfinding in airports as a case study. Lecture Notes in Computer Science, 1997, , 85-102.	1.0	30
39	Extending SQL for Graphical Display. Cartography and Geographic Information Science, 1991, 18, 230-245.	1.1	26
40	What's special about spatial?. SIGMOD Record, 1993, 22, 398-402.	0.7	26
41	Interaction with geographic information systems via spatial queries. Journal of Visual Languages and Computing, 1990, 1, 389-413.	1.8	23
42	The Family of Conceptual Neighborhood Graphs for Region-Region Relations. Lecture Notes in Computer Science, 2010, , 42-55.	1.0	23
43	Topological relations from metric refinements. , 2009, , .		19
44	Exploratory Access to Geographic Data Based on the Map-overlay Metaphor. Journal of Visual Languages and Computing, 1993, 4, 105-125.	1.8	18
45	Whatâ€™s in an Image?. Lecture Notes in Computer Science, 2001, , 474-488.	1.0	17
46	Query Pre-processing of Topological Constraints: Comparing a Composition-Based with Neighborhood-Based Approach. Lecture Notes in Computer Science, 2003, , 362-379.	1.0	17
47	Spatial Reasoning with a Hole. , 2007, , 303-320.		17
48	Visual Map Algebra: a direct-manipulation user interface for GIS. , 1995, , 235-253.		15
49	Relation algebras over containers and surfaces: An ontological study of a room space. Spatial Cognition and Computation, 1999, 1, 155-180.	0.6	14
50	Conceptual Neighborhoods of Topological Relations Between Lines. Lecture Notes in Geoinformation and Cartography, 2008, , 557-574.	0.5	14
51	Interaction with GIS attribute data based on categorical coverages. Lecture Notes in Computer Science, 1993, , 215-233.	1.0	13
52	Structuring a Wayfinderâ€™s Dynamic Space-Time Environment. Lecture Notes in Computer Science, 2003, , 75-92.	1.0	12
53	A Comparison of Inferences about Containers and Surfaces in Small-Scale and Large-Scale Spaces. Journal of Visual Languages and Computing, 2000, 11, 639-662.	1.8	11
54	Geo-Mobile Queries: Sketch-Based Queries in Mobile GIS-Environments. Lecture Notes in Computer Science, 2005, , 143-154.	1.0	11

#	ARTICLE	IF	CITATIONS
55	The Topology of Spatial Scenes in \mathbb{R}^2 . Lecture Notes in Computer Science, 2013, , 495-515.	1.0	11
56	Computer cartography for GIS: An object-oriented view on the display transformation. Computers and Geosciences, 1992, 18, 975-987.	2.0	10
57	The Arrow-Semantics Interpreter. Spatial Cognition and Computation, 2008, 8, 306-332.	0.6	10
58	A Reference System for Topological Relations between Compound Spatial Objects. Lecture Notes in Computer Science, 2009, , 307-316.	1.0	10
59	Surrounds in partitions. , 2014, , .		9
60	Binary topological relations on the digital sphere. International Journal of Approximate Reasoning, 2020, 116, 62-84.	1.9	9
61	Putting Similarity Assessments into Context: Matching Functions with the User's Intended Operations. Lecture Notes in Computer Science, 1999, , 310-323.	1.0	8
62	Image-schemata-based spatial inferences: The container-surface algebra. Lecture Notes in Computer Science, 1997, , 35-52.	1.0	8
63	Structure and Semantics of Arrow Diagrams. Lecture Notes in Computer Science, 2005, , 232-250.	1.0	8
64	Single-Holed Regions: Their Relations and Inferences. Lecture Notes in Computer Science, 2008, , 337-353.	1.0	7
65	Qualitative Spatial-Relation Reasoning for Design. , 2015, , 153-175.		7
66	Changes in Topological Relations when Splitting and Merging Regions. , 2006, , 339-352.		6
67	Perceptual Sketch Interpretation. Lecture Notes in Geoinformation and Cartography, 2008, , 19-38.	0.5	6
68	A model for exploring virtual reality environments. Journal of Visual Languages and Computing, 2003, 14, 471-494.	1.8	5
69	Temporal Relations of Intervals with a Gap. , 2007, , .		5
70	Oriented Regions for Linearly Conceptualized Features. Lecture Notes in Computer Science, 2014, , 333-348.	1.0	5
71	An Ordering of Convex Topological Relations. Lecture Notes in Computer Science, 2012, , 72-86.	1.0	5
72	Swiss Canton Regions: A Model for Complex Objects in Geographic Partitions. Lecture Notes in Computer Science, 2015, , 309-330.	1.0	4

#	ARTICLE	IF	CITATIONS
73	Deficiencies of SQL as a GIS Query Language. , 1991, , 477-491.		4
74	Partitions to improve spatial reasoning. , 2014, , .		3
75	Integral vs. Separable Attributes in Spatial Similarity Assessments. Lecture Notes in Computer Science, 2008, , 295-310.	1.0	3
76	Reasoning with Complements. Lecture Notes in Computer Science, 2011, , 261-270.	1.0	2
77	Beyond the digital Jordan curve: Unconstrained simple pixel-based raster relations. Journal of Computer Languages, 2019, 54, 100906.	1.5	2
78	Establishing Similarity across Multi-granular Topologicalâ€Relation Ontologies. Lecture Notes in Computer Science, 2009, , 98-108.	1.0	2
79	Point Partitions: A Qualitative Representation for Region-Based Spatial Scenes in \mathbb{R}^2 . Lecture Notes in Computer Science, 2016, , 195-209.	1.0	0