

Max J Egenhofer

List of Publications by Year in descending order

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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	Binary topological relations on the digital sphere. International Journal of Approximate Reasoning, 2020, 116, 62-84.	1.9	9
2	Beyond the digital Jordan curve: Unconstrained simple pixel-based raster relations. Journal of Computer Languages, 2019, 54, 100906.	1.5	2
3	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
4	Swiss Canton Regions: A Model for Complex Objects in Geographic Partitions. Lecture Notes in Computer Science, 2015, , 309-330.	1.0	4
5	Qualitative Spatial-Relation Reasoning for Design. , 2015, , 153-175.		7
6	Surrounds in partitions. , 2014, , .		9
7	Partitions to improve spatial reasoning. , 2014, , .		3
8	Oriented Regions for Linearly Conceptualized Features. Lecture Notes in Computer Science, 2014, , 333-348.	1.0	5
9	The Topology of Spatial Scenes in \mathbb{R}^2 . Lecture Notes in Computer Science, 2013, , 495-515.	1.0	11
10	An Ordering of Convex Topological Relations. Lecture Notes in Computer Science, 2012, , 72-86.	1.0	5
11	Reasoning with Complements. Lecture Notes in Computer Science, 2011, , 261-270.	1.0	2
12	The Family of Conceptual Neighborhood Graphs for Region-Region Relations. Lecture Notes in Computer Science, 2010, , 42-55.	1.0	23
13	Topological relations from metric refinements. , 2009, , .		19
14	A Reference System for Topological Relations between Compound Spatial Objects. Lecture Notes in Computer Science, 2009, , 307-316.	1.0	10
15	Establishing Similarity across Multi-granular Topological Relation Ontologies. Lecture Notes in Computer Science, 2009, , 98-108.	1.0	2
16	Spatial Scene Similarity Queries. Transactions in GIS, 2008, 12, 661-681.	1.0	58
17	The Arrow-Semantics Interpreter. Spatial Cognition and Computation, 2008, 8, 306-332.	0.6	10
18	Perceptual Sketch Interpretation. Lecture Notes in Geoinformation and Cartography, 2008, , 19-38.	0.5	6

#	ARTICLE	IF	CITATIONS
19	Conceptual Neighborhoods of Topological Relations Between Lines. Lecture Notes in Geoinformation and Cartography, 2008, , 557-574.	0.5	14
20	Single-Holed Regions: Their Relations and Inferences. Lecture Notes in Computer Science, 2008, , 337-353.	1.0	7
21	Integral vs. Separable Attributes in Spatial Similarity Assessments. Lecture Notes in Computer Science, 2008, , 295-310.	1.0	3
22	Temporal Relations of Intervals with a Gap. , 2007, , .		5
23	Spatial Reasoning with a Hole. , 2007, , 303-320.		17
24	Changes in Topological Relations when Splitting and Merging Regions. , 2006, , 339-352.		6
25	Spherical Topological Relations. Lecture Notes in Computer Science, 2005, , 25-49.	1.0	35
26	Geo-Mobile Queries: Sketch-Based Queries in Mobile GIS-Environments. Lecture Notes in Computer Science, 2005, , 143-154.	1.0	11
27	Structure and Semantics of Arrow Diagrams. Lecture Notes in Computer Science, 2005, , 232-250.	1.0	8
28	Comparing geospatial entity classes: an asymmetric and context-dependent similarity measure. International Journal of Geographical Information Science, 2004, 18, 229-256.	2.2	209
29	A model for exploring virtual reality environments. Journal of Visual Languages and Computing, 2003, 14, 471-494.	1.8	5
30	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
31	Structuring a Wayfinder's Dynamic Space-Time Environment. Lecture Notes in Computer Science, 2003, , 75-92.	1.0	12
32	Toward the semantic geospatial web. , 2002, , .		220
33	Using Ontologies for Integrated Geographic Information Systems. Transactions in GIS, 2002, 6, 231-257.	1.0	328
34	Modeling Moving Objects over Multiple Granularities. Annals of Mathematics and Artificial Intelligence, 2002, 36, 177-194.	0.9	205
35	Progressive Transmission of Vector Map Data over the World Wide Web. Geoinformatica, 2001, 5, 345-373.	2.0	109
36	What's in an Image?. Lecture Notes in Computer Science, 2001, , 474-488.	1.0	17

#	ARTICLE	IF	CITATIONS
37	Similarity of Cardinal Directions. Lecture Notes in Computer Science, 2001, , 36-55.	1.0	100
38	Visualization in an early stage of the problem-solving process in GIS. Computers and Geosciences, 2000, 26, 57-66.	2.0	38
39	A visual tool for querying geographic databases. , 2000, , .		37
40	Identity-based change: a foundation for spatio-temporal knowledge representation. International Journal of Geographical Information Science, 2000, 14, 207-224.	2.2	227
41	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
42	Relation algebras over containers and surfaces: An ontological study of a room space. Spatial Cognition and Computation, 1999, 1, 155-180.	0.6	14
43	Introduction to the Varenus project. International Journal of Geographical Information Science, 1999, 13, 731-745.	2.2	88
44	Progress in computational methods for representing geographical concepts. International Journal of Geographical Information Science, 1999, 13, 775-796.	2.2	54
45	Assessing Semantic Similarities among Geospatial Feature Class Definitions. Lecture Notes in Computer Science, 1999, , 189-202.	1.0	48
46	Modeling Cyclic Change. Lecture Notes in Computer Science, 1999, , 98-109.	1.0	31
47	Putting Similarity Assessments into Context: Matching Functions with the User's Intended Operations. Lecture Notes in Computer Science, 1999, , 310-323.	1.0	8
48	Metric details for natural-language spatial relations. ACM Transactions on Information Systems, 1998, 16, 295-321.	3.8	94
49	Qualitative representation of change. Lecture Notes in Computer Science, 1997, , 15-33.	1.0	32
50	Human conceptions of spaces: Implications for GIS. Transactions in GIS, 1997, 2, 361-375.	1.0	123
51	Query Processing in Spatial-Query-by-Sketch. Journal of Visual Languages and Computing, 1997, 8, 403-424.	1.8	248
52	Algorithms for Hierarchical Spatial Reasoning. Geoinformatica, 1997, 1, 251-273.	2.0	45
53	Image-schemata-based spatial inferences: The container-surface algebra. Lecture Notes in Computer Science, 1997, , 35-52.	1.0	8
54	Structuring space with image schemata: Wayfinding in airports as a case study. Lecture Notes in Computer Science, 1997, , 85-102.	1.0	30

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55	Consistency among parts and aggregates: A computational model. Transactions in GIS, 1996, 1, 189-206.	1.0	32
56	Topological relations in the world of minimum bounding rectangles. SIGMOD Record, 1995, 24, 92-103.	0.7	39
57	Naive Geography. Lecture Notes in Computer Science, 1995, , 1-15.	1.0	208
58	On the equivalence of topological relations. International Journal of Geographical Information Science, 1995, 9, 133-152.	2.2	150
59	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
60	Modelling conceptual neighbourhoods of topological line-region relations. International Journal of Geographical Information Science, 1995, 9, 555-565.	2.2	123
61	Visual Map Algebra: a direct-manipulation user interface for GIS. , 1995, , 235-253.		15
62	Research Paper. International Journal of Geographical Information Science, 1994, 8, 129-142.	2.2	172
63	Deriving the Composition of Binary Topological Relations. Journal of Visual Languages and Computing, 1994, 5, 133-149.	1.8	161
64	Modelling topological spatial relations: Strategies for query processing. Computers and Graphics, 1994, 18, 815-822.	1.4	188
65	Exploratory Access to Geographic Data Based on the Map-overlay Metaphor. Journal of Visual Languages and Computing, 1993, 4, 105-125.	1.8	18
66	Modelling spatial relations and operations with partially ordered sets. International Journal of Geographical Information Science, 1993, 7, 215-229.	2.2	51
67	What's special about spatial?. SIGMOD Record, 1993, 22, 398-402.	0.7	26
68	Interaction with GIS attribute data based on categorical coverages. Lecture Notes in Computer Science, 1993, , 215-233.	1.0	13
69	A conceptual model of wayfinding using multiple levels of abstraction. Lecture Notes in Computer Science, 1992, , 348-367.	1.0	95
70	Why not SQL!. International Journal of Geographical Information Science, 1992, 6, 71-85.	2.2	66
71	Computer cartography for GIS: An object-oriented view on the display transformation. Computers and Geosciences, 1992, 18, 975-987.	2.0	10
72	Reasoning about gradual changes of topological relationships. Lecture Notes in Computer Science, 1992, , 196-219.	1.0	198

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73	Reasoning about binary topological relations. Lecture Notes in Computer Science, 1991, , 141-160.	1.0	329
74	Point-set topological spatial relations. International Journal of Geographical Information Science, 1991, 5, 161-174.	2.2	1,188
75	Extending SQL for Graphical Display. Cartography and Geographic Information Science, 1991, 18, 230-245.	1.1	26
76	Deficiencies of SQL as a GIS Query Language. , 1991, , 477-491.		4
77	Interaction with geographic information systems via spatial queries. Journal of Visual Languages and Computing, 1990, 1, 389-413.	1.8	23
78	A topological data model for spatial databases. Lecture Notes in Computer Science, 1990, , 271-286.	1.0	74
79	A formal definition of binary topological relationships. Lecture Notes in Computer Science, 1989, , 457-472.	1.0	179