

Martin Tomko

List of Publications by Year in descending order

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73
papers

1,112
citations

535685

17
h-index

536525

29
g-index

74
all docs

74
docs citations

74
times ranked

1210
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial Causality: A Systematic Review on Spatial Causal Inference. <i>Geographical Analysis</i> , 2023, 55, 56-89.	1.9	13
2	Translating Place-Related Questions to GeoSPARQL Queries. , 2022, , .		5
3	RIM: a ray intersection model for the analysis of the between relationship of spatial objects in a 2D plane. <i>International Journal of Geographical Information Science</i> , 2021, 35, 893-918.	2.2	3
4	Detecting Unsigned Physical Road Incidents From Driver-View Images. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021, 6, 24-33.	9.4	9
5	Risk mapping for COVID-19 outbreaks in Australia using mobility data. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200657.	1.5	40
6	The acceptability and uptake of smartphone tracking for COVID-19 in Australia. <i>PLoS ONE</i> , 2021, 16, e0244827.	1.1	66
7	Ensemble model for estimating continental-scale patterns of human movement: a case study of Australia. <i>Scientific Reports</i> , 2021, 11, 4806.	1.6	4
8	Paths to social licence for tracking-data analytics in university research and services. <i>PLoS ONE</i> , 2021, 16, e0251964.	1.1	5
9	There is no way! Ternary qualitative spatial reasoning for error detection in map data. <i>Transactions in GIS</i> , 2021, 25, 2048-2073.	1.0	4
10	Spatial concepts in the conversation with a computer. <i>Communications of the ACM</i> , 2021, 64, 82-88.	3.3	0
11	Identification of parking spaces from multi-modal trajectory data. <i>Transactions in GIS</i> , 2021, 25, 3088-3118.	1.0	2
12	Mapping home internet activity during COVID-19 lockdown to identify occupation related inequalities. <i>Scientific Reports</i> , 2021, 11, 21054.	1.6	7
13	Infrastructure-Independent Indoor Localization and Navigation. <i>ACM Computing Surveys</i> , 2020, 52, 1-24.	16.1	24
14	Place Questions and Human-Generated Answers: A Data Analysis Approach. <i>Lecture Notes in Geoinformation and Cartography</i> , 2020, , 3-19.	0.5	7
15	Place facets: a systematic literature review. <i>Spatial Cognition and Computation</i> , 2020, 20, 33-81.	0.6	18
16	Origin-Destination Flow Estimation from Link Count Data Only. <i>Sensors</i> , 2020, 20, 5226.	2.1	16
17	Progress in computational movement analysis – towards movement data science. <i>International Journal of Geographical Information Science</i> , 2020, 34, 2395-2400.	2.2	21
18	From small sets of GPS trajectories to detailed movement profiles: quantifying personalized trip-dependent movement diversity. <i>International Journal of Geographical Information Science</i> , 2020, 34, 2004-2029.	2.2	1

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19	Harnessing spatio-temporal patterns in data for nominal attribute imputation. Transactions in GIS, 2020, 24, 1001-1032.	1.0	3
20	Joint Modelling of Cyber Activities and Physical Context to Improve Prediction of Visitor Behaviors. ACM Transactions on Sensor Networks, 2020, 16, 1-25.	2.3	6
21	A new World Heritage site for Aboriginal engineering. Nature, 2019, 572, 32-32.	13.7	1
22	What can urban mobility data reveal about the spatial distribution of infection in a single city?. BMC Public Health, 2019, 19, 656.	1.2	18
23	Beyond digital twins – A commentary. Environment and Planning B: Urban Analytics and City Science, 2019, 46, 395-399.	1.0	37
24	Designing Adaptable Spatial Cyberinfrastructure for Urban eResearch. Geospatial Technology and the Role of Location in Science, 2019, , 53-69.	0.2	1
25	UniMelb at SemEval-2019 Task 12: Multi-model combination for toponym resolution. , 2019, , .		9
26	Discovery of topological constraints on spatial object classes using a refined topological model. Journal of Spatial Information Science, 2019, , .	1.1	2
27	A Location-Query-Browse Graph for Contextual Recommendation. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 204-218.	4.0	28
28	Shopping intent recognition and location prediction from cyber-physical activities via wi-fi logs. , 2018, , .		9
29	Travelers or locals? Identifying meaningful sub-populations from human movement data in the absence of ground truth. EPJ Data Science, 2018, 7, .	1.5	32
30	Street Network Studies: from Networks to Models and their Representations. Networks and Spatial Economics, 2018, 18, 735-749.	0.7	73
31	Collaborative activity-based ridesharing. Journal of Transport Geography, 2018, 72, 131-138.	2.3	12
32	A Graph Database Model for Knowledge Extracted from Place Descriptions. ISPRS International Journal of Geo-Information, 2018, 7, 221.	1.4	19
33	Identifying In-App User Actions from Mobile Web Logs. Lecture Notes in Computer Science, 2018, , 300-311.	1.0	1
34	Understanding the predictability of user demographics from cyber-physical-social behaviours in indoor retail spaces. EPJ Data Science, 2018, 7, .	1.5	19
35	Contextual Location Imputation for Confined WiFi Trajectories. Lecture Notes in Computer Science, 2018, , 444-457.	1.0	2
36	Analyzing <sc>W</sc>eb behavior in indoor retail spaces. Journal of the Association for Information Science and Technology, 2017, 68, 62-76.	1.5	15

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37	Ripe for the picking? Dataset maturity assessment based on temporal dynamics of feature definitions. International Journal of Geographical Information Science, 2017, 31, 1334-1358.	2.2	9
38	Understanding Indoor Behavior. , 2017, , .		2
39	Indoor localization and navigation independent of sensor based technologies. SIGSPATIAL Special, 2017, 9, 19-26.	2.5	1
40	D-Log: A WiFi Log-based differential scheme for enhanced indoor localization with single RSSI source and infrequent sampling rate. Pervasive and Mobile Computing, 2017, 37, 94-114.	2.1	24
41	Integrating Decentralized Indoor Evacuation with Information Depositories in the Field. ISPRS International Journal of Geo-Information, 2017, 6, 213.	1.4	12
42	Finding equivalent keys in openstreetmap. , 2017, , .		10
43	The Australia urban research gateway. Concurrency Computation Practice and Experience, 2015, 27, 358-375.	1.4	38
44	Modeling coordinated multiple views of heterogeneous data cubes for urban visual analytics. International Journal of Digital Earth, 2015, 8, 558-578.	1.6	14
45	Defensive Wayfinding: Incongruent Information in Route Following. Lecture Notes in Computer Science, 2015, , 426-446.	1.0	8
46	A new approach for indoor customer tracking based on a single Wi-Fi connection. , 2014, , .		4
47	Elastic Scaling of e-Infrastructures to Support Data-Intensive Research Collaborations. , 2014, , .		7
48	How People Use the Web in Large Indoor Spaces. , 2014, , .		7
49	A new method for improving Wi-Fi-based indoor positioning accuracy. Journal of Location Based Services, 2014, 8, 135-147.	1.4	28
50	ISA 2013 workshop report: a report on the Fifth International Workshop on Indoor Spatial Awareness. SIGSPATIAL Special, 2014, 6, 5-6.	2.5	0
51	Describing the functional spatial structure of urban environments. Computers, Environment and Urban Systems, 2013, 41, 177-187.	3.3	16
52	User evaluation of automatically generated keywords and toponyms for geo-referenced images. Journal of the Association for Information Science and Technology, 2013, 64, 480-499.	2.6	9
53	Decentralized orchestration of data-centric workflows in Cloud environments. Future Generation Computer Systems, 2013, 29, 1826-1837.	4.9	17
54	A lightweight authorization mechanism for spatially enabled health data services. , 2013, , .		1

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55	From Descriptions to Depictions: A Conceptual Framework. Lecture Notes in Computer Science, 2013, , 299-319.	1.0	35
56	The Online What if? Planning Support System. Lecture Notes in Geoinformation and Cartography, 2013, , 349-362.	0.5	18
57	The design of a flexible web-based analytical platform for urban research. , 2012, , .		10
58	Decentralized Orchestration of Data-centric Workflows Using the Object Modeling System. , 2012, , .		11
59	A data-driven urban research environment for Australia. , 2012, , .		9
60	Security Attribute Aggregation Models for E-research Collaborations. , 2012, , .		7
61	Towards an e-Infrastructure for Urban Research across Australia. , 2011, , .		14
62	Automatic image captioning from the web for GPS photographs. , 2010, , .		6
63	Pragmatic Construction of Destination Descriptions for Urban Environments. Spatial Cognition and Computation, 2009, 9, 1-29.	0.6	45
64	<i>Venice, City of Canals:</i> Characterizing Regions through Content Classification. Transactions in GIS, 2009, 13, 295-314.	1.0	9
65	Identification of Practically Visible Spatial Objects in Natural Environments. Lecture Notes in Geoinformation and Cartography, 2009, , 1-23.	0.5	3
66	Experiential hierarchies of streets. Computers, Environment and Urban Systems, 2008, 32, 41-52.	3.3	71
67	A dialog-driven process of generating route directions. Computers, Environment and Urban Systems, 2008, 32, 233-245.	3.3	39
68	Landmark Hierarchies in Context. Environment and Planning B: Planning and Design, 2008, 35, 381-398.	1.7	70
69	Identification of the Initial Entity in Granular Route Directions. , 2006, , 43-60.		6
70	Translating the Web Semantics of Georeferences. , 2006, , 297-333.		6
71	The Cognitive Aspect of Place Properties. International Conference on GIScience Short Paper Proceedings, 0, 1, .	0.0	6
72	Templates of generic geographic information for answering where-questions. International Journal of Geographical Information Science, 0, , 1-27.	2.2	5

#	ARTICLE	IF	CITATIONS
73	Can you fixme? An intrinsic classification of contributor-identified spatial data issues using topic models. International Journal of Geographical Information Science, 0, , 1-30.	2.2	3