

Martin Tomko

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,112
citations

471477

17
h-index

477281

29
g-index

74
all docs

74
docs citations

74
times ranked

1061
citing authors

#	ARTICLE	IF	CITATIONS
1	Street Network Studies: from Networks to Models and their Representations. <i>Networks and Spatial Economics</i> , 2018, 18, 735-749.	1.6	73
2	Experiential hierarchies of streets. <i>Computers, Environment and Urban Systems</i> , 2008, 32, 41-52.	7.1	71
3	Landmark Hierarchies in Context. <i>Environment and Planning B: Planning and Design</i> , 2008, 35, 381-398.	1.7	70
4	The acceptability and uptake of smartphone tracking for COVID-19 in Australia. <i>PLoS ONE</i> , 2021, 16, e0244827.	2.5	66
5	Pragmatic Construction of Destination Descriptions for Urban Environments. <i>Spatial Cognition and Computation</i> , 2009, 9, 1-29.	1.2	45
6	Risk mapping for COVID-19 outbreaks in Australia using mobility data. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200657.	3.4	40
7	A dialog-driven process of generating route directions. <i>Computers, Environment and Urban Systems</i> , 2008, 32, 233-245.	7.1	39
8	The Australia urban research gateway. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 358-375.	2.2	38
9	Beyond digital twins – A commentary. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2019, 46, 395-399.	2.0	37
10	From Descriptions to Depictions: A Conceptual Framework. <i>Lecture Notes in Computer Science</i> , 2013, , 299-319.	1.3	35
11	Travelers or locals? Identifying meaningful sub-populations from human movement data in the absence of ground truth. <i>EPJ Data Science</i> , 2018, 7, .	2.8	32
12	A new method for improving Wi-Fi-based indoor positioning accuracy. <i>Journal of Location Based Services</i> , 2014, 8, 135-147.	1.9	28
13	A Location-Query-Browse Graph for Contextual Recommendation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018, 30, 204-218.	5.7	28
14	D-Log: A WiFi Log-based differential scheme for enhanced indoor localization with single RSSI source and infrequent sampling rate. <i>Pervasive and Mobile Computing</i> , 2017, 37, 94-114.	3.3	24
15	Infrastructure-Independent Indoor Localization and Navigation. <i>ACM Computing Surveys</i> , 2020, 52, 1-24.	23.0	24
16	Progress in computational movement analysis – towards movement data science. <i>International Journal of Geographical Information Science</i> , 2020, 34, 2395-2400.	4.8	21
17	A Graph Database Model for Knowledge Extracted from Place Descriptions. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 221.	2.9	19
18	Understanding the predictability of user demographics from cyber-physical-social behaviours in indoor retail spaces. <i>EPJ Data Science</i> , 2018, 7, .	2.8	19

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19	What can urban mobility data reveal about the spatial distribution of infection in a single city?. BMC Public Health, 2019, 19, 656.	2.9	18
20	Place facets: a systematic literature review. Spatial Cognition and Computation, 2020, 20, 33-81.	1.2	18
21	The Online What if? Planning Support System. Lecture Notes in Geoinformation and Cartography, 2013, , 349-362.	1.0	18
22	Decentralized orchestration of data-centric workflows in Cloud environments. Future Generation Computer Systems, 2013, 29, 1826-1837.	7.5	17
23	Describing the functional spatial structure of urban environments. Computers, Environment and Urban Systems, 2013, 41, 177-187.	7.1	16
24	Originâ€“Destination Flow Estimation from Link Count Data Only. Sensors, 2020, 20, 5226.	3.8	16
25	Analyzing <scp>W</scp>eb behavior in indoor retail spaces. Journal of the Association for Information Science and Technology, 2017, 68, 62-76.	2.9	15
26	Towards an e-Infrastructure for Urban Research across Australia. , 2011, , .		14
27	Modeling coordinated multiple views of heterogeneous data cubes for urban visual analytics. International Journal of Digital Earth, 2015, 8, 558-578.	3.9	14
28	Spatial Causality: A Systematic Review on Spatial Causal Inference. Geographical Analysis, 2023, 55, 56-89.	3.5	13
29	Integrating Decentralized Indoor Evacuation with Information Depositories in the Field. ISPRS International Journal of Geo-Information, 2017, 6, 213.	2.9	12
30	Collaborative activity-based ridesharing. Journal of Transport Geography, 2018, 72, 131-138.	5.0	12
31	Decentralized Orchestration of Data-centric Workflows Using the Object Modeling System. , 2012, , .		11
32	The design of a flexible web-based analytical platform for urban research. , 2012, , .		10
33	Finding equivalent keys in openstreetmap. , 2017, , .		10
34	<i>Venice, City of Canals:</i> Characterizing Regions through Content Classification. Transactions in GIS, 2009, 13, 295-314.	2.3	9
35	A data-driven urban research environment for Australia. , 2012, , .		9
36	User evaluation of automatically generated keywords and toponyms for geoâ€“referenced images. Journal of the Association for Information Science and Technology, 2013, 64, 480-499.	2.6	9

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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.	4.8	9
38	Shopping intent recognition and location prediction from cyber-physical activities via wi-fi logs. , 2018, , .		9
39	Detecting Unsigned Physical Road Incidents From Driver-View Images. IEEE Transactions on Intelligent Vehicles, 2021, 6, 24-33.	12.7	9
40	UniMelb at SemEval-2019 Task 12: Multi-model combination for toponym resolution. , 2019, , .		9
41	Defensive Wayfinding: Incongruent Information in Route Following. Lecture Notes in Computer Science, 2015, , 426-446.	1.3	8
42	Security Attribute Aggregation Models for E-research Collaborations. , 2012, , .		7
43	Elastic Scaling of e-Infrastructures to Support Data-Intensive Research Collaborations. , 2014, , .		7
44	How People Use the Web in Large Indoor Spaces. , 2014, , .		7
45	Place Questions and Human-Generated Answers: A Data Analysis Approach. Lecture Notes in Geoinformation and Cartography, 2020, , 3-19.	1.0	7
46	Mapping home internet activity during COVID-19 lockdown to identify occupation related inequalities. Scientific Reports, 2021, 11, 21054.	3.3	7
47	Automatic image captioning from the web for GPS photographs. , 2010, , .		6
48	The Cognitive Aspect of Place Properties. International Conference on GIScience Short Paper Proceedings, 0, 1, .	0.0	6
49	Identification of the Initial Entity in Granular Route Directions. , 2006, , 43-60.		6
50	Joint Modelling of Cyber Activities and Physical Context to Improve Prediction of Visitor Behaviors. ACM Transactions on Sensor Networks, 2020, 16, 1-25.	3.6	6
51	Translating the Web Semantics of Georeferences. , 2006, , 297-333.		6
52	Templates of generic geographic information for answering where-questions. International Journal of Geographical Information Science, 0, , 1-27.	4.8	5
53	Paths to social licence for tracking-data analytics in university research and services. PLoS ONE, 2021, 16, e0251964.	2.5	5
54	Translating Place-Related Questions to GeoSPARQL Queries. , 2022, , .		5

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55	A new approach for indoor customer tracking based on a single Wi-Fi connection. , 2014, , .		4
56	Ensemble model for estimating continental-scale patterns of human movement: a case study of Australia. Scientific Reports, 2021, 11, 4806.	3.3	4
57	There is no way! Ternary qualitative spatial reasoning for error detection in map data. Transactions in GIS, 2021, 25, 2048-2073.	2.3	4
58	Identification of Practically Visible Spatial Objects in Natural Environments. Lecture Notes in Geoinformation and Cartography, 2009, , 1-23.	1.0	3
59	Harnessing spatio-temporal patterns in data for nominal attribute imputation. Transactions in GIS, 2020, 24, 1001-1032.	2.3	3
60	RIM: a ray intersection model for the analysis of the between relationship of spatial objects in a 2D plane. International Journal of Geographical Information Science, 2021, 35, 893-918.	4.8	3
61	Can you fixme? An intrinsic classification of contributor-identified spatial data issues using topic models. International Journal of Geographical Information Science, 0, , 1-30.	4.8	3
62	Understanding Indoor Behavior. , 2017, , .		2
63	Discovery of topological constraints on spatial object classes using a refined topological model. Journal of Spatial Information Science, 2019, , .	1.2	2
64	Identification of parking spaces from multi-modal trajectory data. Transactions in GIS, 2021, 25, 3088-3118.	2.3	2
65	Contextual Location Imputation for Confined WiFi Trajectories. Lecture Notes in Computer Science, 2018, , 444-457.	1.3	2
66	A lightweight authorization mechanism for spatially enabled health data services. , 2013, , .		1
67	Indoor localization and navigation independent of sensor based technologies. SIGSPATIAL Special, 2017, 9, 19-26.	2.7	1
68	Identifying In-App User Actions from Mobile Web Logs. Lecture Notes in Computer Science, 2018, , 300-311.	1.3	1
69	A new World Heritage site for Aboriginal engineering. Nature, 2019, 572, 32-32.	27.8	1
70	From small sets of GPS trajectories to detailed movement profiles: quantifying personalized trip-dependent movement diversity. International Journal of Geographical Information Science, 2020, 34, 2004-2029.	4.8	1
71	Designing Adaptable Spatial Cyberinfrastructure for Urban eResearch. Geospatial Technology and the Role of Location in Science, 2019, , 53-69.	0.5	1
72	ISA 2013 workshop report: a report on the Fifth International Workshop on Indoor Spatial Awareness. SIGSPATIAL Special, 2014, 6, 5-6.	2.7	0

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73	Spatial concepts in the conversation with a computer. Communications of the ACM, 2021, 64, 82-88.	4.5	0