Michela Bertolotto

List of Publications by Year
in descending order

129	2,231	430442	264894
papers	citations	18	42
		h-index	g-index

132	132	132	1897
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Map-Based Recommendation System and House Price Prediction Model for Real Estate. ISPRS International Journal of Geo-Information, 2022, 11, 178.	1.4	2
2	Sherloc: a knowledge-driven algorithm for geolocating microblog messages at sub-city level. International Journal of Geographical Information Science, 2021, 35, 84-115.	2.2	3
3	Leveraging Road Characteristics and Contributor Behaviour for Assessing Road Type Quality in OSM. ISPRS International Journal of Geo-Information, 2021, 10, 436.	1.4	5
4	An Extremely-Low Cost Ground-Based Whole Sky Imager. , 2021, , .		8
5	Evaluating the Effectiveness of Embeddings in Representing the Structure of Geospatial Ontologies. Lecture Notes in Geoinformation and Cartography, 2020, , 41-57.	0.5	1
6	The Drive towards Consensual Perspectives for Enhancing Sustainable Mining. Resources, 2020, 9, 147.	1.6	5
7	Exploring Budgeted Learning for Data-Driven Semantic Inference via Urban Functions. IEEE Access, 2020, 8, 32258-32269.	2.6	5
8	How to Tune Parameters in Geographical Ontologies Embedding. , 2020, , .		1
9	Volunteered and crowdsourced geographic information: the OpenStreetMap project. Journal of Spatial Information Science, 2020, , .	1.1	10
10	Towards Real Estate Analytics using Map Personalisation. , 2020, , .		0
11	Inadequate adaptation of geospatial information for sustainable mining towards agenda 2030 sustainable development goals. Journal of Cleaner Production, 2019, 238, 117954.	4.6	27
12	Efficient LiDAR point cloud data encoding for scalable data management within the Hadoop eco-system. , 2019, , .		4
13	The role of geographic knowledge in sub-city level geolocation. , 2019, , .		4
14	Traditional vs. Machine-Learning Techniques for OSM Quality Assessment. , 2019, , 469-487.		3
15	A spatio-temporal index for aerial full waveform laser scanning data. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 232-251.	4.9	4
16	Impact of Semantic Granularity on Geographic Information Search Support. , 2018, , .		4
17	A Multi-layer CRF Based Methodology for Improving Crowdsourced Street Semantics. , 2018, , .		3
18	A Visual Analytics GUI for Multigranular Spatio-Temporal Exploration and Comparison of Open Mobility Data. , 2018, , .		2

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19	OGC-to-W3C Services: A Wrapper-Based Solution for Geospatial Metadata Exchange. Geosciences (Switzerland), 2018, 8, 227.	1.0	0
20	Multigranular Spatio-Temporal Exploration: An Application to On-Street Parking Data. Lecture Notes in Computer Science, 2018, , 90-100.	1.0	2
21	Towards Exploiting Social Networks for Detecting Epidemic Outbreaks. Global Journal of Flexible Systems Management, 2017, 18, 61-71.	3.4	8
22	Using T-Drive and BerlinMod in Parallel SECONDO for Performance Evaluation of Geospatial Big Data Processing. Advances in Geographic Information Science, 2017, , 3-19.	0.3	1
23	A gold-standard social media corpus for urban issues. , 2017, , .		5
24	Traditional vs. Machine-Learning Techniques for OSM Quality Assessment. Advances in Geospatial Technologies Book Series, 2017, , 47-64.	0.1	1
25	Gazetteer enrichment for addressing urban areas: a case study. Journal of Location Based Services, 2016, 10, 142-159.	1.4	6
26	Airborne laser scanning data storage and indexing: state-of-the-art review. International Journal of Remote Sensing, 2016, 37, 6187-6204.	1.3	22
27	Machine Learning for Crowdsourced Spatial Data. Lecture Notes in Computer Science, 2016, , 294-297.	1.0	3
28	Probabilistic Graphical Modelling for Semantic Labelling of Crowdsourced Map Data. Advances in Intelligent Systems and Computing, 2016, , 213-224.	0.5	8
29	Inferring semantics from geometry. , 2015, , .		11
30	Linear street extraction using a Conditional Random Field model. Spatial Statistics, 2015, 14, 532-545.	0.9	3
31	A Structural-Lexical Measure of Semantic Similarity for Geo-Knowledge Graphs. ISPRS International Journal of Geo-Information, 2015, 4, 471-492.	1.4	18
32	Appearance-based SLAM in a network space. , 2015, , .		0
33	Octree-based region growing for point cloud segmentation. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 104, 88-100.	4.9	436
34	Leveraging VGI for Gazetteer Enrichment: A Case Study for Geoparsing Twitter Messages. Lecture Notes in Computer Science, 2015, , 20-36.	1.0	2
35	Personalizing maps. Communications of the ACM, 2015, 58, 68-74.	3.3	44
36	Interpreting map usage patterns using geovisual analytics and spatio-temporal clustering. International Journal of Digital Earth, 2015, 8, 599-622.	1.6	9

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37	Automated highway tag assessment of OpenStreetMap road networks. , 2014, , .		31
38	Cognitively adequate topological robot localization and mapping. , 2014, , .		0
39	Interactive cartographic route descriptions. GeoInformatica, 2014, 18, 1-26.	2.0	10
40	An evaluative baseline for geo-semantic relatedness and similarity. GeoInformatica, 2014, 18, 747-767.	2.0	40
41	Linking geographic vocabularies through WordNet. Annals of GIS, 2014, 20, 73-84.	1.4	14
42	A geovisual analytics approach for mouse movement analysis. International Journal of Data Mining, Modelling and Management, 2014, 6, 315.	0.1	2
43	Octree-based indexing for 3D pointclouds within an Oracle Spatial DBMS. Computers and Geosciences, 2013, 51, 430-438.	2.0	23
44	A Survey of Volunteered Open Geo-Knowledge Bases in the Semantic Web. Intelligent Systems Reference Library, 2013, , 93-120.	1.0	21
45	Computing the semantic similarity of geographic terms using volunteered lexical definitions. International Journal of Geographical Information Science, 2013, 27, 2099-2118.	2.2	39
46	Geographic knowledge extraction and semantic similarity in OpenStreetMap. Knowledge and Information Systems, 2013, 37, 61-81.	2.1	110
47	Analysing the growth of OpenStreetMap networks. Spatial Statistics, 2013, 3, 21-32.	0.9	79
48	Multi-granular Street Network Representation towards Quality Assessment of OpenStreetMap Data. , 2013, , .		16
49	The semantic similarity ensemble. Journal of Spatial Information Science, 2013, , .	1.1	4
50	Grounding Linked Open Data in WordNet: The Case of the OSM Semantic Network. Lecture Notes in Computer Science, 2013, , 1-15.	1.0	6
51	Comparing Close Destination and Route-Based Similarity Metrics for the Analysis of Map User Trajectories. Lecture Notes in Computer Science, 2013, , 117-128.	1.0	2
52	Augmented Maps with Route Sketches. Lecture Notes in Geoinformation and Cartography, 2013, , 251-264.	0.5	0
53	Towards Multimodal Mobile GIS for the Elderly. , 2013, , 590-609.		0
54	Assessing the application of three-dimensional collaborative technologies within an e-learning environment. Interactive Learning Environments, 2012, 20, 57-75.	4.4	19

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55	A multi-layer data representation of trajectories in social networks based on points of interest. , 2012, , .		0
56	Evaluating the Benefits of Octree-based Indexing for Lidar Data. Photogrammetric Engineering and Remote Sensing, 2012, 78, 927-934.	0.3	17
57	Identifying specific spatial tasks through clustering and geovisual analysis. , 2012, , .		3
58	Utilizing geometric coherence in the computation of map transformations. Computers and Geosciences, 2012, 47, 151-159.	2.0	3
59	Clustering User Trajectories to Find Patterns for Social Interaction Applications. Lecture Notes in Computer Science, 2012, , 82-97.	1.0	10
60	Spatial Relations Using High Level Concepts. ISPRS International Journal of Geo-Information, 2012, 1, 333-350.	1.4	14
61	Spatial OLAP and Map Generalization. International Journal of Data Warehousing and Mining, 2012, 8, 24-51.	0.4	18
62	Towards dynamic behavior-based profiling for reducing spatial information overload in map browsing activity. GeoInformatica, 2012, 16, 409-434.	2.0	10
63	Line Simplification in the Presence of Non-Planar Topological Relationships. Lecture Notes in Geoinformation and Cartography, 2012, , 25-42.	0.5	6
64	The Similarity Jury: Combining Expert Judgements on Geographic Concepts. Lecture Notes in Computer Science, 2012, , 231-240.	1.0	3
65	A Web-Based Visualisation Tool for Analysing Mouse Movements to Support Map Personalisation. Lecture Notes in Computer Science, 2011, , 132-143.	1.0	7
66	Task-based annotation and retrieval for image information management. Multimedia Tools and Applications, 2011, 54, 473-497.	2.6	3
67	Spatial OnLine Analytical Processing of Geographic Data through the Google Earth Interface. Studies in Computational Intelligence, 2011, , 163-182.	0.7	7
68	A comparison of open source geospatial technologies for web mapping. International Journal of Web Engineering and Technology, 2011, 6, 354.	0.1	12
69	Semantically Enriching VGI in Support of Implicit Feedback Analysis. Lecture Notes in Computer Science, 2011, , 78-93.	1.0	22
70	View- and Scale-Based Progressive Transmission of Vector Data. Lecture Notes in Computer Science, 2011, , 51-62.	1.0	6
71	Data reduction techniques for web and mobile GIS. , 2011, , 139-152.		1
72	Evaluating the benefits of multimodal interface design for CoMPASSâ€"a mobile GIS. GeoInformatica, 2010, 14, 135-162.	2.0	9

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73	RecoMap. , 2010, , .		20
74	Personalizing map content to improve task completion efficiency. International Journal of Geographical Information Science, 2010, 24, 741-760.	2.2	23
75	Multi-granular Spatio-temporal Object Models: Concepts and Research Directions. Lecture Notes in Computer Science, 2010, , 132-148.	1.0	7
76	Three-Dimensional Spatial Information Systems: State of the Art Review. Recent Patents on Computer Science, 2010, 2, 21-31.	0.5	6
77	Personalization in adaptive and interactive GIS. Annals of GIS, 2009, 15, 23-33.	1.4	19
78	Integrating Google Earth within OLAP Tools for Multidimensional Exploration and Analysis of Spatial Data. Lecture Notes in Business Information Processing, 2009, , 940-951.	0.8	18
79	A Study of Spatial Interaction Behaviour for Improved Delivery of Web-Based Maps. Lecture Notes in Computer Science, 2009, , 120-134.	1.0	5
80	Three-Dimensional Spatial Information Systems: State of the Art Review. Recent Patents on Computer Science, 2009, 2, 21-31.	0.5	2
81	Three-Dimensional Spatial Information Systems: State of the Art Review. Recent Patents on Computer Science, 2009, 2, 21-31.	0.5	2
82	Adaptive Management of Multigranular Spatio-Temporal Object Attributes. Lecture Notes in Computer Science, 2009, , 320-337.	1.0	2
83	Virtual reality for collaborative e-learning. Computers and Education, 2008, 50, 1339-1353.	5.1	305
84	Enriching Spatial OLAP with Map Generalization: a Conceptual Multidimensional Model. , 2008, , .		6
85	Multimodal Interaction - Improving Usability and Efficiency in a Mobile GIS Context. , 2008, , .		5
86	Multigranular spatio-temporal models. , 2008, , .		6
87	Understanding geospatial interests by visualizing map interaction behavior. Information Visualization, 2008, 7, 275-286.	1.2	21
88	Personalising Map Feature Content for Mobile Map Users. , 2008, , 125-145.		2
89	A Survey of Multimodal Interfaces for Mobile Mapping Applications. , 2008, , 146-167.		4
90	Integration of Geographic Information into Multidimensional Models. Lecture Notes in Computer Science, 2008, , 316-329.	1.0	6

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91	Querying Multigranular Spatio-temporal Objects. Lecture Notes in Computer Science, 2008, , 390-403.	1.0	9
92	Using Multimedia and Virtual Reality for Web-Based Collaborative Learning on Multiple Platforms. , 2008, , 1125-1155.		0
93	Analysis of implicit interest indicators for spatial data. , 2007, , .		8
94	Towards a framework for mining and analysing spatio€temporal datasets. International Journal of Geographical Information Science, 2007, 21, 895-906.	2.2	35
95	Mobile case-based decision support for intelligent patient knowledge management. Health Informatics Journal, 2007, 13, 179-193.	1.1	7
96	Efficient and consistent line simplification for web mapping. International Journal of Web Engineering and Technology, 2007, 3, 139.	0.1	11
97	Personalised maps in multimodal mobile GIS. International Journal of Web Engineering and Technology, 2007, 3, 196.	0.1	14
98	Exploratory spatio-temporal data mining and visualization. Journal of Visual Languages and Computing, 2007, 18, 255-279.	1.8	114
99	Using Multimedia and Virtual Reality for Web-Based Collaborative Learning on Multiple Platforms. , 2007, , 118-157.		0
100	Progressive Techniques for Efficient Vector Map Data Transmission: An Overview. , 2007, , 65-84.		5
101	A Visual Approach for Spatio-Temporal Data Mining. , 2006, , .		3
102	Case-Based Decision Support for Intelligent Patient Knowledge Management. , 2006, , .		1
103	Using sketches and knowledge bases for geo-spatial image retrieval. Computers, Environment and Urban Systems, 2006, 30, 29-53.	3.3	2
104	A multigranular object€oriented framework supporting spatio€temporal granularity conversions. International Journal of Geographical Information Science, 2006, 20, 511-534.	2.2	42
105	Implicit interaction profiling for recommending spatial content. , 2005, , .		32
106	Context-Oriented Image Retrieval. Lecture Notes in Computer Science, 2005, , 339-352.	1.0	2
107	Delivering Personalized Context-Aware Spatial Information to Mobile Devices. Lecture Notes in Computer Science, 2005, , 194-205.	1.0	12
108	Managing Spatial Knowledge for Mobile Personalized Applications. Lecture Notes in Computer Science, 2005, , 329-335.	1.0	6

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109	Text-to-scene conversion for accident visualization. , 2004, , .		4
110	CLEV-R. , 2004, , .		1
111	A Knowledge Management System for Intelligent Retrieval of Geo-Spatial Imagery. Lecture Notes in Computer Science, 2004, , 535-544.	1.0	1
112	A Case-Based Approach to Managing Geo-spatial Imagery Tasks. Lecture Notes in Computer Science, 2004, , 702-716.	1.0	5
113	Adaptive Presentation and Navigation for Geospatial Imagery Tasks. Lecture Notes in Computer Science, 2004, , 195-204.	1.0	0
114	Capturing task knowledge for geo-spatial imagery. , 2003, , .		4
115	Knowledge Capture and Reuse for Geo-spatial Imagery Tasks. , 2003, , 622-636.		2
116	Scale- and orientation-invariant scene similarity metrics for image queries. International Journal of Geographical Information Science, 2002, 16, 749-772.	2.2	18
117	Digital Image Similarity for Geo-spatial Knowledge Management. Lecture Notes in Computer Science, 2002, , 58-72.	1.0	8
118	Progressive Transmission of Vector Map Data over the World Wide Web. GeoInformatica, 2001, 5, 345-373.	2.0	109
119	Progressive vector transmission. , 1999, , .		45
120	Generating assembly and machining sequences from the Face-to-Face Composition model. CAD Computer Aided Design, 1996, 28, 101-112.	1.4	5
121	Pyramidal simplicial complexes. , 1995, , .		12
122	A unifying framework for multilevel description of spatial data. Lecture Notes in Computer Science, 1995, , 259-278.	1.0	9
123	Hierarchical hypersurface modeling. Lecture Notes in Computer Science, 1994, , 88-97.	1.0	3
124	Towards Multimodal Mobile GIS for the Elderly. , 0, , 301-320.		1
125	A Web and Mobile System for Environmental Decision Support. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 317-338.	0.3	1
126	Understanding geospatial interests by visualizing map interaction behavior. Information Visualization, 0, , .	1.2	1

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127	Assessing the Application of 3D Collaborative Interfaces within an Immersive Virtual University. , 0, , 1-24.		0
128	Using Multimedia and Virtual Reality for Web-Based Collaborative Learning on Multiple Platforms. , 0, , 172-203.		0
129	Benefits, Challenges, and Research in Multimodal Mobile GIS. , 0, , 331-350.		0