Michela Bertolotto

List of Publications by Year
in descending order

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

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

#	Article	IF	Citations
1	Octree-based region growing for point cloud segmentation. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 104, 88-100.	4.9	436
2	Virtual reality for collaborative e-learning. Computers and Education, 2008, 50, 1339-1353.	5.1	305
3	Exploratory spatio-temporal data mining and visualization. Journal of Visual Languages and Computing, 2007, 18, 255-279.	1.8	114
4	Geographic knowledge extraction and semantic similarity in OpenStreetMap. Knowledge and Information Systems, 2013, 37, 61-81.	2.1	110
5	Progressive Transmission of Vector Map Data over the World Wide Web. GeoInformatica, 2001, 5, 345-373.	2.0	109
6	Analysing the growth of OpenStreetMap networks. Spatial Statistics, 2013, 3, 21-32.	0.9	79
7	Progressive vector transmission. , 1999, , .		45
8	Personalizing maps. Communications of the ACM, 2015, 58, 68-74.	3.3	44
9	A multigranular objectâ€oriented framework supporting spatioâ€temporal granularity conversions. International Journal of Geographical Information Science, 2006, 20, 511-534.	2.2	42
10	An evaluative baseline for geo-semantic relatedness and similarity. GeoInformatica, 2014, 18, 747-767.	2.0	40
11	Computing the semantic similarity of geographic terms using volunteered lexical definitions. International Journal of Geographical Information Science, 2013, 27, 2099-2118.	2.2	39
12	Towards a framework for mining and analysing spatioâ€temporal datasets. International Journal of Geographical Information Science, 2007, 21, 895-906.	2.2	35
13	Implicit interaction profiling for recommending spatial content. , 2005, , .		32
14	Automated highway tag assessment of OpenStreetMap road networks. , 2014, , .		31
15	Inadequate adaptation of geospatial information for sustainable mining towards agenda 2030 sustainable development goals. Journal of Cleaner Production, 2019, 238, 117954.	4.6	27
16	Personalizing map content to improve task completion efficiency. International Journal of Geographical Information Science, 2010, 24, 741-760.	2.2	23
17	Octree-based indexing for 3D pointclouds within an Oracle Spatial DBMS. Computers and Geosciences, 2013, 51, 430-438.	2.0	23
18	Airborne laser scanning data storage and indexing: state-of-the-art review. International Journal of Remote Sensing, 2016, 37, 6187-6204.	1.3	22

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19	Semantically Enriching VGI in Support of Implicit Feedback Analysis. Lecture Notes in Computer Science, 2011, , 78-93.	1.0	22
20	Understanding geospatial interests by visualizing map interaction behavior. Information Visualization, 2008, 7, 275-286.	1.2	21
21	A Survey of Volunteered Open Geo-Knowledge Bases in the Semantic Web. Intelligent Systems Reference Library, 2013, , 93-120.	1.0	21
22	RecoMap. , 2010, , .		20
23	Personalization in adaptive and interactive GIS. Annals of GIS, 2009, 15, 23-33.	1.4	19
24	Assessing the application of three-dimensional collaborative technologies within an e-learning environment. Interactive Learning Environments, 2012, 20, 57-75.	4.4	19
25	Scale- and orientation-invariant scene similarity metrics for image queries. International Journal of Geographical Information Science, 2002, 16, 749-772.	2.2	18
26	Spatial OLAP and Map Generalization. International Journal of Data Warehousing and Mining, 2012, 8, 24-51.	0.4	18
27	A Structural-Lexical Measure of Semantic Similarity for Geo-Knowledge Graphs. ISPRS International Journal of Geo-Information, 2015, 4, 471-492.	1.4	18
28	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
29	Evaluating the Benefits of Octree-based Indexing for Lidar Data. Photogrammetric Engineering and Remote Sensing, 2012, 78, 927-934.	0.3	17
30	Multi-granular Street Network Representation towards Quality Assessment of OpenStreetMap Data. , 2013, , .		16
31	Personalised maps in multimodal mobile GIS. International Journal of Web Engineering and Technology, 2007, 3, 196.	0.1	14
32	Spatial Relations Using High Level Concepts. ISPRS International Journal of Geo-Information, 2012, 1, 333-350.	1.4	14
33	Linking geographic vocabularies through WordNet. Annals of GIS, 2014, 20, 73-84.	1.4	14
34	Pyramidal simplicial complexes. , 1995, , .		12
35	A comparison of open source geospatial technologies for web mapping. International Journal of Web Engineering and Technology, 2011, 6, 354.	0.1	12
36	Delivering Personalized Context-Aware Spatial Information to Mobile Devices. Lecture Notes in Computer Science, 2005, , 194-205.	1.0	12

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37	Efficient and consistent line simplification for web mapping. International Journal of Web Engineering and Technology, 2007, 3, 139.	0.1	11
38	Inferring semantics from geometry. , 2015, , .		11
39	Clustering User Trajectories to Find Patterns for Social Interaction Applications. Lecture Notes in Computer Science, 2012, , 82-97.	1.0	10
40	Towards dynamic behavior-based profiling for reducing spatial information overload in map browsing activity. GeoInformatica, 2012, 16, 409-434.	2.0	10
41	Interactive cartographic route descriptions. GeoInformatica, 2014, 18, 1-26.	2.0	10
42	Volunteered and crowdsourced geographic information: the OpenStreetMap project. Journal of Spatial Information Science, 2020, , .	1.1	10
43	Evaluating the benefits of multimodal interface design for CoMPASSâ€"a mobile GIS. GeoInformatica, 2010, 14, 135-162.	2.0	9
44	Interpreting map usage patterns using geovisual analytics and spatio-temporal clustering. International Journal of Digital Earth, 2015, 8, 599-622.	1.6	9
45	A unifying framework for multilevel description of spatial data. Lecture Notes in Computer Science, 1995, , 259-278.	1.0	9
46	Querying Multigranular Spatio-temporal Objects. Lecture Notes in Computer Science, 2008, , 390-403.	1.0	9
47	Analysis of implicit interest indicators for spatial data. , 2007, , .		8
48	Probabilistic Graphical Modelling for Semantic Labelling of Crowdsourced Map Data. Advances in Intelligent Systems and Computing, 2016, , 213-224.	0.5	8
49	Towards Exploiting Social Networks for Detecting Epidemic Outbreaks. Global Journal of Flexible Systems Management, 2017, 18, 61-71.	3.4	8
50	Digital Image Similarity for Geo-spatial Knowledge Management. Lecture Notes in Computer Science, 2002, , 58-72.	1.0	8
51	An Extremely-Low Cost Ground-Based Whole Sky Imager. , 2021, , .		8
52	Mobile case-based decision support for intelligent patient knowledge management. Health Informatics Journal, 2007, 13, 179-193.	1.1	7
53	A Web-Based Visualisation Tool for Analysing Mouse Movements to Support Map Personalisation. Lecture Notes in Computer Science, 2011, , 132-143.	1.0	7
54	Spatial OnLine Analytical Processing of Geographic Data through the Google Earth Interface. Studies in Computational Intelligence, 2011, , 163-182.	0.7	7

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55	Multi-granular Spatio-temporal Object Models: Concepts and Research Directions. Lecture Notes in Computer Science, 2010, , 132-148.	1.0	7
56	Enriching Spatial OLAP with Map Generalization: a Conceptual Multidimensional Model. , 2008, , .		6
57	Multigranular spatio-temporal models. , 2008, , .		6
58	Gazetteer enrichment for addressing urban areas: a case study. Journal of Location Based Services, 2016, 10, 142-159.	1.4	6
59	Integration of Geographic Information into Multidimensional Models. Lecture Notes in Computer Science, 2008, , 316-329.	1.0	6
60	View- and Scale-Based Progressive Transmission of Vector Data. Lecture Notes in Computer Science, 2011, , 51-62.	1.0	6
61	Line Simplification in the Presence of Non-Planar Topological Relationships. Lecture Notes in Geoinformation and Cartography, 2012, , 25-42.	0.5	6
62	Grounding Linked Open Data in WordNet: The Case of the OSM Semantic Network. Lecture Notes in Computer Science, 2013, , 1-15.	1.0	6
63	Three-Dimensional Spatial Information Systems: State of the Art Review. Recent Patents on Computer Science, 2010, 2, 21-31.	0.5	6
64	Managing Spatial Knowledge for Mobile Personalized Applications. Lecture Notes in Computer Science, 2005, , 329-335.	1.0	6
65	Generating assembly and machining sequences from the Face-to-Face Composition model. CAD Computer Aided Design, 1996, 28, 101-112.	1.4	5
66	Multimodal Interaction - Improving Usability and Efficiency in a Mobile GIS Context. , 2008, , .		5
67	The Drive towards Consensual Perspectives for Enhancing Sustainable Mining. Resources, 2020, 9, 147.	1.6	5
68	Exploring Budgeted Learning for Data-Driven Semantic Inference via Urban Functions. IEEE Access, 2020, 8, 32258-32269.	2.6	5
69	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
70	A Case-Based Approach to Managing Geo-spatial Imagery Tasks. Lecture Notes in Computer Science, 2004, , 702-716.	1.0	5
71	A Study of Spatial Interaction Behaviour for Improved Delivery of Web-Based Maps. Lecture Notes in Computer Science, 2009, , 120-134.	1.0	5
72	A gold-standard social media corpus for urban issues. , 2017, , .		5

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73	Progressive Techniques for Efficient Vector Map Data Transmission: An Overview. , 2007, , 65-84.		5
74	Capturing task knowledge for geo-spatial imagery. , 2003, , .		4
75	Text-to-scene conversion for accident visualization. , 2004, , .		4
76	The semantic similarity ensemble. Journal of Spatial Information Science, 2013, , .	1.1	4
77	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
78	Impact of Semantic Granularity on Geographic Information Search Support. , 2018, , .		4
79	Efficient LiDAR point cloud data encoding for scalable data management within the Hadoop eco-system. , 2019, , .		4
80	A Survey of Multimodal Interfaces for Mobile Mapping Applications. , 2008, , 146-167.		4
81	The role of geographic knowledge in sub-city level geolocation. , 2019, , .		4
82	A Visual Approach for Spatio-Temporal Data Mining. , 2006, , .		3
83	Task-based annotation and retrieval for image information management. Multimedia Tools and Applications, 2011, 54, 473-497.	2.6	3
84	Identifying specific spatial tasks through clustering and geovisual analysis. , 2012, , .		3
85	Utilizing geometric coherence in the computation of map transformations. Computers and Geosciences, 2012, 47, 151-159.	2.0	3
86	Linear street extraction using a Conditional Random Field model. Spatial Statistics, 2015, 14, 532-545.	0.9	3
87	Machine Learning for Crowdsourced Spatial Data. Lecture Notes in Computer Science, 2016, , 294-297.	1.0	3
88	A Multi-layer CRF Based Methodology for Improving Crowdsourced Street Semantics. , 2018, , .		3
89	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
90	Hierarchical hypersurface modeling. Lecture Notes in Computer Science, 1994, , 88-97.	1.0	3

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91	The Similarity Jury: Combining Expert Judgements on Geographic Concepts. Lecture Notes in Computer Science, 2012, , 231-240.	1.0	3
92	Traditional vs. Machine-Learning Techniques for OSM Quality Assessment. , 2019, , 469-487.		3
93	Using sketches and knowledge bases for geo-spatial image retrieval. Computers, Environment and Urban Systems, 2006, 30, 29-53.	3.3	2
94	A geovisual analytics approach for mouse movement analysis. International Journal of Data Mining, Modelling and Management, 2014, 6, 315.	0.1	2
95	Leveraging VGI for Gazetteer Enrichment: A Case Study for Geoparsing Twitter Messages. Lecture Notes in Computer Science, 2015, , 20-36.	1.0	2
96	A Visual Analytics GUI for Multigranular Spatio-Temporal Exploration and Comparison of Open Mobility Data. , 2018, , .		2
97	Context-Oriented Image Retrieval. Lecture Notes in Computer Science, 2005, , 339-352.	1.0	2
98	Knowledge Capture and Reuse for Geo-spatial Imagery Tasks. , 2003, , 622-636.		2
99	Personalising Map Feature Content for Mobile Map Users. , 2008, , 125-145.		2
100	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
101	Three-Dimensional Spatial Information Systems: State of the Art Review. Recent Patents on Computer Science, 2009, 2, 21-31.	0.5	2
102	Three-Dimensional Spatial Information Systems: State of the Art Review. Recent Patents on Computer Science, 2009, 2, 21-31.	0.5	2
103	Adaptive Management of Multigranular Spatio-Temporal Object Attributes. Lecture Notes in Computer Science, 2009, , 320-337.	1.0	2
104	Multigranular Spatio-Temporal Exploration: An Application to On-Street Parking Data. Lecture Notes in Computer Science, 2018, , 90-100.	1.0	2
105	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
106	CLEV-R. , 2004, , .		1
107	Case-Based Decision Support for Intelligent Patient Knowledge Management. , 2006, , .		1
108	Evaluating the Effectiveness of Embeddings in Representing the Structure of Geospatial Ontologies. Lecture Notes in Geoinformation and Cartography, 2020, , 41-57.	0.5	1

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109	A Knowledge Management System for Intelligent Retrieval of Geo-Spatial Imagery. Lecture Notes in Computer Science, 2004, , 535-544.	1.0	1
110	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
111	How to Tune Parameters in Geographical Ontologies Embedding. , 2020, , .		1
112	Towards Multimodal Mobile GIS for the Elderly. , 0, , 301-320.		1
113	A Web and Mobile System for Environmental Decision Support. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 317-338.	0.3	1
114	Understanding geospatial interests by visualizing map interaction behavior. Information Visualization, 0, , .	1.2	1
115	Data reduction techniques for web and mobile GIS. , 2011, , 139-152.		1
116	Traditional vs. Machine-Learning Techniques for OSM Quality Assessment. Advances in Geospatial Technologies Book Series, 2017, , 47-64.	0.1	1
117	A multi-layer data representation of trajectories in social networks based on points of interest. , 2012, , .		0
118	Cognitively adequate topological robot localization and mapping. , 2014, , .		0
119	Appearance-based SLAM in a network space. , 2015, , .		0
120	OGC-to-W3C Services: A Wrapper-Based Solution for Geospatial Metadata Exchange. Geosciences (Switzerland), 2018, 8, 227.	1.0	0
121	Adaptive Presentation and Navigation for Geospatial Imagery Tasks. Lecture Notes in Computer Science, 2004, , 195-204.	1.0	0
122	Using Multimedia and Virtual Reality for Web-Based Collaborative Learning on Multiple Platforms. , 2007, , 118-157.		0
123	Using Multimedia and Virtual Reality for Web-Based Collaborative Learning on Multiple Platforms. , 2008, , 1125-1155.		0
124	Augmented Maps with Route Sketches. Lecture Notes in Geoinformation and Cartography, 2013, , 251-264.	0.5	0
125	Towards Multimodal Mobile GIS for the Elderly. , 2013, , 590-609.		0
126	Towards Real Estate Analytics using Map Personalisation. , 2020, , .		0

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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