

Claudio Bettini

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

4,451
citations

218381

26
h-index

143772

57
g-index

131
all docs

131
docs citations

131
times ranked

2930
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of context modelling and reasoning techniques. <i>Pervasive and Mobile Computing</i> , 2010, 6, 161-180.	2.1	918
2	Protecting Privacy Against Location-Based Personal Identification. <i>Lecture Notes in Computer Science</i> , 2005, , 185-199.	1.0	227
3	COSAR: hybrid reasoning for context-aware activity recognition. <i>Personal and Ubiquitous Computing</i> , 2011, 15, 271-289.	1.9	218
4	An access control model supporting periodicity constraints and temporal reasoning. <i>ACM Transactions on Database Systems</i> , 1998, 23, 231-285.	1.5	201
5	Time Granularities in Databases, Data Mining, and Temporal Reasoning. , 2000, , .		180
6	Privacy in geo-social networks: proximity notification with untrusted service providers and curious buddies. <i>VLDB Journal</i> , 2011, 20, 541-566.	2.7	139
7	OWL 2 modeling and reasoning with complex human activities. <i>Pervasive and Mobile Computing</i> , 2011, 7, 379-395.	2.1	131
8	Discovering frequent event patterns with multiple granularities in time sequences. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 1998, 10, 222-237.	4.0	112
9	Location-Related Privacy in Geo-Social Networks. <i>IEEE Internet Computing</i> , 2011, 15, 20-27.	3.2	110
10	Privacy protection in pervasive systems: State of the art and technical challenges. <i>Pervasive and Mobile Computing</i> , 2015, 17, 159-174.	2.1	101
11	A temporal access control mechanism for database systems. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 1996, 8, 67-80.	4.0	92
12	Logical design for temporal databases with multiple granularities. <i>ACM Transactions on Database Systems</i> , 1997, 22, 115-170.	1.5	88
13	Temporal Reasoning in Workflow Systems. <i>Distributed and Parallel Databases</i> , 2002, 11, 269-306.	1.0	81
14	SmartFABER: Recognizing fine-grained abnormal behaviors for early detection of mild cognitive impairment. <i>Artificial Intelligence in Medicine</i> , 2016, 67, 57-74.	3.8	79
15	A general framework for time granularity and its application to temporal reasoning. <i>Annals of Mathematics and Artificial Intelligence</i> , 1998, 22, 29-58.	0.9	71
16	Provisions and Obligations in Policy Management and Security Applications. , 2002, , 502-513.		70
17	Privacy-Aware Proximity Based Services. , 2009, , .		61
18	Preserving location and absence privacy in geo-social networks. , 2010, , .		58

#	ARTICLE	IF	CITATIONS
19	Is ontology-based activity recognition really effective?. , 2011, , .		58
20	Context-Aware Activity Recognition through a Combination of Ontological and Statistical Reasoning. Lecture Notes in Computer Science, 2009, , 39-53.	1.0	57
21	Anonymity in Location-Based Services: Towards a General Framework. , 2007, , .		52
22	Provisions and Obligations in Policy Rule Management. Journal of Network and Systems Management, 2003, 11, 351-372.	3.3	51
23	Solving multi-granularity temporal constraint networks. Artificial Intelligence, 2002, 140, 107-152.	3.9	48
24	The Privacy Implications of Cyber Security Systems. ACM Computing Surveys, 2019, 51, 1-27.	16.1	45
25	Obligation monitoring in policy management. , 0, , .		41
26	Fine-grained recognition of abnormal behaviors for early detection of mild cognitive impairment. , 2015, , .		40
27	Hybrid reasoning in the CARE middleware for context awareness. International Journal of Web Engineering and Technology, 2009, 5, 3.	0.1	38
28	Loosely coupling ontological reasoning with an efficient middleware for context-awareness. , 2005, , .		35
29	A Comparison of Spatial Generalization Algorithms for LBS Privacy Preservation. , 2007, , .		32
30	Anonymity and Historical-Anonymity in Location-Based Services. Lecture Notes in Computer Science, 2009, , 1-30.	1.0	32
31	newNECTAR: Collaborative active learning for knowledge-based probabilistic activity recognition. Pervasive and Mobile Computing, 2019, 56, 88-105.	2.1	31
32	Temporal semantic assumptions and their use in databases. IEEE Transactions on Knowledge and Data Engineering, 1998, 10, 277-296.	4.0	30
33	Symbolic representation of user-defined time granularities. Annals of Mathematics and Artificial Intelligence, 2000, 30, 53-92.	0.9	30
34	MIMOSA: context-aware adaptation for ubiquitous web access. Personal and Ubiquitous Computing, 2010, 14, 301-320.	1.9	29
35	A temporal authorization model. , 1994, , .		28
36	CAVIAR: Context-driven Active and Incremental Activity Recognition. Knowledge-Based Systems, 2020, 196, 105816.	4.0	28

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37	Spatial generalisation algorithms for LBS privacy preservation. Journal of Location Based Services, 2007, 1, 179-207.	1.4	27
38	Longitude: Centralized Privacy-Preserving Computation of Users' Proximity. Lecture Notes in Computer Science, 2009, , 142-157.	1.0	27
39	Private context-aware recommendation of points of interest: An initial investigation. , 2012, , .		26
40	Time-dependent concepts: representation and reasoning using temporal description logics. Data and Knowledge Engineering, 1997, 22, 1-38.	2.1	24
41	Privacy in Georeferenced Context-Aware Services: A Survey. Lecture Notes in Computer Science, 2009, , 151-172.	1.0	24
42	Distributed Context Monitoring for the Adaptation of Continuous Services. World Wide Web, 2007, 10, 503-528.	2.7	23
43	Preserving Anonymity of Recurrent Location-Based Queries. , 2009, , .		23
44	Towards Highly Adaptive Services for Mobile Computing. , 2004, , 121-134.		21
45	From lab to life: Fine-grained behavior monitoring in the elderly's home. , 2015, , .		21
46	JS-Reduce: Defending Your Data from Sequential Background Knowledge Attacks. IEEE Transactions on Dependable and Secure Computing, 2012, 9, 387-400.	3.7	20
47	ProvidentHider: An Algorithm to Preserve Historical k-Anonymity in LBS. , 2009, , .		19
48	Profile aggregation and policy evaluation for adaptive internet services. , 0, , .		17
49	Efficient profile aggregation and policy evaluation in a middleware for adaptive mobile applications. Pervasive and Mobile Computing, 2008, 4, 697-718.	2.1	17
50	Composition and Generalization of Context Data for Privacy Preservation. , 2008, , .		16
51	Obfuscation of sensitive data in network flows. , 2012, , .		16
52	A Practical Location Privacy Attack in Proximity Services. , 2013, , .		16
53	SmartWheels: Detecting urban features for wheelchair users' navigation. Pervasive and Mobile Computing, 2020, 62, 101115.	2.1	16
54	POLARIS: Probabilistic and Ontological Activity Recognition in Smart-Homes. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 209-223.	4.0	16

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55	Let the objects tell what you are doing. , 2016, , .		14
56	Privacy Protection in Location-Based Services: A Survey. , 2018, , 73-96.		14
57	Differentially-private release of check-in data for venue recommendation. , 2014, , .		13
58	Semi-supervised and personalized federated activity recognition based on active learning and label propagation. Personal and Ubiquitous Computing, 2022, 26, 1281-1298.	1.9	13
59	A Performance Evaluation of Ontology-Based Context Reasoning. , 2007, , .		12
60	Protecting Users' Anonymity in Pervasive Computing Environments. , 2008, , .		12
61	NECTAR: Knowledge-based Collaborative Active Learning for Activity Recognition. , 2018, , .		12
62	Shadow attacks on users'™ anonymity in pervasive computing environments. Pervasive and Mobile Computing, 2008, 4, 819-835.	2.1	11
63	Monitoring objects manipulations to detect abnormal behaviors. , 2017, , .		11
64	DeXAR. , 2022, 6, 1-30.		11
65	DECENTRALIZED ADMINISTRATION FOR A TEMPORAL ACCESS CONTROL MODEL. Information Systems, 1997, 22, 223-248.	2.4	10
66	ProCAVIAR: Hybrid Data-Driven and Probabilistic Knowledge-Based Activity Recognition. IEEE Access, 2020, 8, 146876-146886.	2.6	10
67	Context provenance to enhance the dependability of ambient intelligence systems. Personal and Ubiquitous Computing, 2012, 16, 799-818.	1.9	9
68	Anonymity and Diversity in LBS: A Preliminary Investigation. , 2007, , .		8
69	An Efficient Algorithm for Minimizing Time Granularity Periodical Representations. , 0, , .		7
70	Obfuscation of Sensitive Data for Incremental Release of Network Flows. IEEE/ACM Transactions on Networking, 2015, 23, 672-686.	2.6	7
71	Towards automatic induction of abnormal behavioral patterns for recognizing mild cognitive impairment. , 2016, , .		7
72	Mobile security and privacy: Advances, challenges and future research directions. Pervasive and Mobile Computing, 2016, 32, 1-2.	2.1	7

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73	Automatic Detection of Urban Features from Wheelchair Users's Movements. , 2019, , .		7
74	k-Anonymity in Databases with Timestamped Data. , 2006, , .		6
75	Multidisciplinary Analysis of a Complete Infrared Suppression System. , 2007, , 1365.		6
76	Towards the adaptive integration of multiple context reasoners in pervasive computing environments. , 2010, , .		6
77	Incremental release of differentially-private check-in data. Pervasive and Mobile Computing, 2015, 16, 220-238.	2.1	6
78	Analysis of long-term abnormal behaviors for early detection of cognitive decline. , 2016, , .		6
79	Challenges for Mobile Data Management in the Era of Cloud and Social Computing. , 2011, , .		5
80	A Platform for Privacy-Preserving Geo-social Recommendation of Points of Interest. , 2013, , .		5
81	Semantic Compression of Temporal Data. Lecture Notes in Computer Science, 2001, , 267-278.	1.0	5
82	Free schedules for free agents in workflow systems. , 0, , .		4
83	Research Issues and Trends in Spatial and Temporal Granularities. Annals of Mathematics and Artificial Intelligence, 2002, 36, 1-4.	0.9	4
84	Computational Analysis of Flow Separation Control for the Flow over a Wall-Mounted Hump Using a Synthetic Jet. , 2007, , .		4
85	Pcube: A System to Evaluate and Test Privacy-Preserving Proximity Services. , 2010, , .		4
86	Integrating Identity, Location, and Absence Privacy in Context-Aware Retrieval of Points of Interest. , 2011, , .		4
87	Is Privacy Regulation Slowing Down Research on Pervasive Computing?. Computer, 2020, 53, 44-52.	1.2	4
88	How Anonymous Is k-Anonymous? Look at Your Quasi-ID. Lecture Notes in Computer Science, 2008, , 1-15.	1.0	4
89	Context-aware Web Services for Distributed Retrieval of Points of Interest. , 2007, , .		3
90	Location privacy attacks based on distance and density information. , 2012, , .		3

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91	Privacy Threats in Location-Based Services. , 2008, , 906-912.		3
92	Cor-Split: Defending Privacy in Data Re-publication from Historical Correlations and Compromised Tuples. Lecture Notes in Computer Science, 2009, , 562-579.	1.0	3
93	The MARBLE Dataset: Multi-inhabitant Activities of Daily Living Combining Wearable and Environmental Sensors Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 451-468.	0.2	3
94	MICAR: multi-inhabitant context-aware activity recognition in home environments. Distributed and Parallel Databases, 2023, 41, 571-602.	1.0	3
95	Reasoning with advanced policy rules and its application to access control. International Journal on Digital Libraries, 2004, 4, 156-170.	1.1	2
96	Experience Report: Ontological Reasoning for Context-aware Internet Services. , 0, , .		2
97	Evaluating privacy threats in released database views by symmetric indistinguishability. Journal of Computer Security, 2009, 17, 5-42.	0.5	2
98	Hide & Crypt: Protecting Privacy in Proximity-Based Services. Lecture Notes in Computer Science, 2009, , 441-444.	1.0	2
99	A System Prototype for Solving Multi-granularity Temporal CSP. Lecture Notes in Computer Science, 2005, , 142-156.	1.0	2
100	Deriving Abstract Views of Multi-granularity Temporal Constraint Networks. Lecture Notes in Computer Science, 2002, , 454-463.	1.0	1
101	Obsidian: A scalable and efficient framework for NetFlow obfuscation. , 2013, , .		1
102	Obsidian: A scalable and efficient framework for NetFlow obfuscation. , 2013, , .		1
103	Hybrid data-driven and context-aware activity recognition with mobile devices. , 2019, , .		1
104	Towards Active Learning Interfaces for Multi-Inhabitant Activity Recognition. , 2020, , .		1
105	Distributed Context Monitoring for Continuous Mobile Services. , 2005, , 123-137.		1
106	Information Release Control: A Learning-Based Architecture. Lecture Notes in Computer Science, 2005, , 176-198.	1.0	1
107	Collaborative activity recognition with heterogeneous activity sets and privacy preferences. Journal of Ambient Intelligence and Smart Environments, 2021, 13, 433-452.	0.8	1
108	Preliminary Results on Sensitive Data Leakage in Federated Human Activity Recognition. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
109	Knowledge Infusion for Context-Aware Sensor-Based Human Activity Recognition. , 2022, , .		1
110	The connection machine opportunity for the implementation of a concurrent functional language. Future Generation Computer Systems, 1992, 7, 231-245.	4.9	0
111	Semantic assumptions and query evaluation in temporal databases. SIGMOD Record, 1995, 24, 257-268.	0.7	0
112	A Learning-based Approach to Information Release Control. , 2003, , 83-105.		0
113	IEEE PerCom 2010 PhD Forum: Message from the PhD Forum chair. , 2010, , .		0
114	Welcome from the technical program chairs. , 2011, , .		0
115	Message from Panel Chairs. , 2011, , .		0
116	Message from Workshop Chairs. , 2012, , .		0
117	Message from the General Chairs - Volume 1. , 2013, , .		0
118	Demo abstract: Demonstration of the FABER system for fine-grained recognition of abnormal behaviors. , 2015, , .		0
119	Is Privacy Regulation Slowing Down or Enabling the Wide Adoption of Pervasive Systems? Panel Summary. , 2019, , .		0
120	Geo-Social Networks Privacy. , 2021, , 1-4.		0
121	Temporal Access Control. , 2021, , 1-3.		0
122	Temporal Access Control. , 2011, , 1284-1285.		0
123	Privacy Threats in Location-Based Services. , 2016, , 1-10.		0
124	Privacy Threats in Location-Based Services. , 2017, , 1652-1661.		0