

Maarten van Steen

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

3,533
citations

293460

24
h-index

169272

56
g-index

101
all docs

101
docs citations

101
times ranked

2738
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Detection of Crowd Motion Patterns. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 152-164.	4.0	4
2	k-Anonymous Crowd Flow Analytics. , 2020, , .		3
3	A Survey of Techniques for Automatically Sensing the Behavior of a Crowd. ACM Computing Surveys, 2019, 51, 1-40.	16.1	27
4	Identifying Stops and Moves in WiFi Tracking Data. Sensors, 2018, 18, 4039.	2.1	3
5	Spaceprint: a Mobility-based Fingerprinting Scheme for Spaces. , 2018, , .		1
6	Identifying Movements in Noisy Crowd Analytics Data. , 2018, , .		14
7	WAN Data Replication. , 2018, , 4584-4588.		0
8	Exploiting Density to Track Human Behavior in Crowded Environments. , 2017, 55, 48-54.		3
9	Visualizing, clustering, and predicting the behavior of museum visitors. Pervasive and Mobile Computing, 2017, 38, 430-443.	2.1	46
10	WiFi Tracking of Pedestrian Behavior. , 2017, , 309-337.		13
11	Decentralized Network-Level Synchronization in Mobile Ad Hoc Networks. ACM Transactions on Sensor Networks, 2016, 12, 1-42.	2.3	7
12	Dynamic resource allocation using performance forecasting. , 2016, , .		0
13	A brief introduction to distributed systems. Computing (Vienna/New York), 2016, 98, 967-1009.	3.2	83
14	Presumably Simple: Monitoring Crowds Using WiFi. , 2016, , .		18
15	Towards decisive garments for heat stress risk detection. , 2016, , .		5
16	A landscape of crowd-management support: An integrative approach. Safety Science, 2016, 86, 142-164.	2.6	74
17	WAN Data Replication. , 2016, , 1-6.		0
18	GDCluster: A General Decentralized Clustering Algorithm. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1892-1905.	4.0	23

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19	Cost-Effective Resource Allocation for Deploying Pub/Sub on Cloud. , 2014, , .		17
20	Decentralized group formation. Journal of Internet Services and Applications, 2014, 5, .	1.6	4
21	Crowd textures as proximity graphs. IEEE Communications Magazine, 2014, 52, 114-121.	4.9	413
22	From proximity sensing to spatio-temporal social graphs. , 2014, , .		11
23	Editorial: Wireless Technologies for Humanitarian Relief. Ad Hoc Networks, 2014, 13, 1.	3.4	1
24	GoSCAN: Decentralized scalable data clustering. Computing (Vienna/New York), 2013, 95, 759-784.	3.2	14
25	Exploring design tradeoffs of a distributed algorithm for cosmic ray event detection. Journal of Instrumentation, 2013, 8, P03011-P03011.	0.5	1
26	Reliable localised event detection in a wireless distributed radio telescope. International Journal of Sensor Networks, 2013, 14, 155.	0.2	2
27	VICINITY: A Pinch of Randomness Brings out the Structure. Lecture Notes in Computer Science, 2013, , 21-40.	1.0	17
28	A case for hierarchical routing in low-power wireless embedded networks. ACM Transactions on Sensor Networks, 2012, 8, 1-34.	2.3	6
29	Extreme distributed systems: from large scale to complexity. Computing (Vienna/New York), 2012, 94, 619-620.	3.2	1
30	Reliable Localized Event Detection in a Wireless Distributed Radio Telescope. , 2012, , .		1
31	Revisiting Gossip-Based Ad-Hoc Routing. , 2012, , .		6
32	Robust Overlays for Privacy-Preserving Data Dissemination over a Social Graph. , 2012, , .		8
33	PolderCast: Fast, Robust, and Scalable Architecture for P2P Topic-Based Pub/Sub. Lecture Notes in Computer Science, 2012, , 271-291.	1.0	44
34	Challenges in very large distributed systems. Journal of Internet Services and Applications, 2012, 3, 59-66.	1.6	12
35	Guest Editors' Introduction: Internet-Scale Data Management. IEEE Internet Computing, 2012, 16, 10-12.	3.2	4
36	A Modeling Framework for Gossip-based Information Spread. , 2011, , .		5

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37	Merging ultra-low duty cycle networks. , 2011, , .		6
38	A survey of DHT security techniques. ACM Computing Surveys, 2011, 43, 1-49.	16.1	130
39	Computer Science, Informatics, and the Networked World. IEEE Internet Computing, 2011, 15, 4-6.	3.2	1
40	Cooperative Repair of Wireless Broadcasts. Lecture Notes in Computer Science, 2011, , 243-248.	1.0	2
41	EvAg: a scalable peer-to-peer evolutionary algorithm. Genetic Programming and Evolvable Machines, 2010, 11, 227-246.	1.5	49
42	Providing data confidentiality against malicious hosts in Shared Data Spaces. Science of Computer Programming, 2010, 75, 426-439.	1.5	9
43	Secure peer sampling. Computer Networks, 2010, 54, 2086-2098.	3.2	29
44	Towards congestion-aware all-to-all information dissemination in mobile ad-hoc networks. , 2010, , .		4
45	The Design and Evaluation of a Self-Organizing Superpeer Network. IEEE Transactions on Computers, 2010, 59, 317-331.	2.4	24
46	Gossip-Based Self-Management of a Recursive Area Hierarchy for Large Wireless SensorNets. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 562-576.	4.0	14
47	Network-level synchronization in decentralized social ad-hoc networks. , 2010, , .		4
48	Optimal Decentralized Formation of k-Member Partnerships. , 2010, , .		4
49	Replicating for Performance: Case Studies. Lecture Notes in Computer Science, 2010, , 73-89.	1.0	4
50	Wikipedia workload analysis for decentralized hosting. Computer Networks, 2009, 53, 1830-1845.	3.2	255
51	An analytical model of information dissemination for a gossip-based protocol. Computer Networks, 2009, 53, 2288-2303.	3.2	22
52	Autonomous Resource Selection for Decentralized Utility Computing. , 2009, , .		27
53	WAN Data Replication. , 2009, , 3441-3445.		0
54	Practical large-scale latency estimation. Computer Networks, 2008, 52, 1343-1364.	3.2	35

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55	Broker-placement in latency-aware peer-to-peer networks. <i>Computer Networks</i> , 2008, 52, 1617-1633.	3.2	2
56	Service-oriented data denormalization for scalable web applications. , 2008, , .		14
57	An Analytical Model of Information Dissemination for a Gossip-Based Protocol. <i>Lecture Notes in Computer Science</i> , 2008, , 230-242.	1.0	4
58	Technical challenges in market-driven automated service provisioning. , 2008, , .		3
59	Quantitative analysis of gossiping protocols. <i>Performance Evaluation Review</i> , 2008, 36, 2-2.	0.4	1
60	Identifying Malicious Peers Before It's Too Late: A Decentralized Secure Peer Sampling Service. , 2007, , .		16
61	Gossiping in distributed systems. <i>Operating Systems Review (ACM)</i> , 2007, 41, 2-7.	1.5	131
62	Gossip-based peer sampling. <i>ACM Transactions on Computer Systems</i> , 2007, 25, 8.	0.6	362
63	Analysis of Caching and Replication Strategies for Web Applications. <i>IEEE Internet Computing</i> , 2007, 11, 60-66.	3.2	275
64	Enabling service adaptability with versatile anycast. <i>Concurrency Computation Practice and Experience</i> , 2007, 19, 1837-1863.	1.4	7
65	Proactive gossip-based management of semantic overlay networks. <i>Concurrency Computation Practice and Experience</i> , 2007, 19, 2299-2311.	1.4	32
66	An experimental evaluation of self-managing availability in shared data spaces. <i>Science of Computer Programming</i> , 2007, 64, 246-262.	1.5	7
67	Hybrid Dissemination: Adding Determinism to Probabilistic Multicasting in Large-Scale P2P Systems. <i>Lecture Notes in Computer Science</i> , 2007, , 389-409.	1.0	6
68	Managing clouds. <i>Operating Systems Review (ACM)</i> , 2006, 40, 9-13.	1.5	15
69	Latency-Driven Replica Placement. <i>IPSI Digital Courier</i> , 2006, 2, 561-572.	0.3	10
70	A wide-area Distribution Network for free software. <i>ACM Transactions on Internet Technology</i> , 2006, 6, 259-281.	3.0	0
71	A distributed shared data space for personal health systems. <i>Studies in Health Technology and Informatics</i> , 2006, 124, 57-62.	0.2	0
72	Distributed redirection for the World-Wide Web. <i>Computer Networks</i> , 2005, 49, 743-765.	3.2	5

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73	CYCLON: Inexpensive Membership Management for Unstructured P2P Overlays. <i>Journal of Network and Systems Management</i> , 2005, 13, 197-217.	3.3	360
74	Dynamically Adapting Tuple Replication for Managing Availability in a Shared Data Space. <i>Lecture Notes in Computer Science</i> , 2005, , 109-124.	1.0	10
75	Epidemic-Style Management of Semantic Overlays for Content-Based Searching. <i>Lecture Notes in Computer Science</i> , 2005, , 1143-1152.	1.0	83
76	The Peer Sampling Service: Experimental Evaluation of Unstructured Gossip-Based Implementations. <i>Lecture Notes in Computer Science</i> , 2004, , 79-98.	1.0	76
77	GROUP FORMATION AMONG DECENTRALIZED AUTONOMOUS AGENTS. <i>Applied Artificial Intelligence</i> , 2004, 18, 953-970.	2.0	7
78	Replication for web hosting systems. <i>ACM Computing Surveys</i> , 2004, 36, 291-334.	16.1	111
79	Scalable strong consistency for web applications. , 2004, , .		2
80	Unifying user-to-user messaging systems. <i>IEEE Internet Computing</i> , 2004, 8, 76-82.	3.2	6
81	A Robust and Scalable Peer-to-Peer Gossiping Protocol. <i>Lecture Notes in Computer Science</i> , 2004, , 47-58.	1.0	49
82	Exploiting Differentiated Tuple Distribution in Shared Data Spaces. <i>Lecture Notes in Computer Science</i> , 2004, , 579-586.	1.0	3
83	Dynamic Adaptation of Data Distribution Policies in a Shared Data Space System. <i>Lecture Notes in Computer Science</i> , 2004, , 1225-1242.	1.0	6
84	A method for decentralized clustering in large multi-agent systems. , 2003, , .		47
85	An Epidemic Protocol for Managing Routing Tables in Very Large Peer-to-Peer Networks. <i>Lecture Notes in Computer Science</i> , 2003, , 41-54.	1.0	20
86	Dynamically selecting optimal distribution strategies for Web documents. <i>IEEE Transactions on Computers</i> , 2002, 51, 637-651.	2.4	53
87	Supporting Internet-scale multi-agent systems. <i>Data and Knowledge Engineering</i> , 2002, 41, 229-245.	2.1	53
88	The globe infrastructure directory service. <i>Computer Communications</i> , 2002, 25, 835-845.	3.1	7
89	Scalable human-friendly resource names. <i>IEEE Internet Computing</i> , 2001, 5, 20-27.	3.2	17
90	Differentiated strategies for replicating Web documents. <i>Computer Communications</i> , 2001, 24, 232-240.	3.1	27

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91	Encapsulating distribution by remote objects. Information and Software Technology, 2001, 43, 353-363.	3.0	4
92	Efficient Tracking of Mobile Objects in Globe. Computer Journal, 2001, 44, 340-353.	1.5	12
93	Characterizing Internet performance to support wide-area application development. Operating Systems Review (ACM), 2000, 34, 41-47.	1.5	13
94	The distributed ASCI Supercomputer project. Operating Systems Review (ACM), 2000, 34, 76-96.	1.5	80
95	Mechanisms for effective caching in the Globe location service. , 2000, , .		2
96	A scalable middleware solution for advanced wide-area Web services. Distributed Systems Engineering, 1999, 6, 34-42.	0.6	25
97	Replicated invocations in wide-area systems. , 1998, , .		3
98	Algorithmic Design of the Globe Wide-Area Location Service. Computer Journal, 1998, 41, 297-310.	1.5	28
99	An architecture for a wide area distributed system. , 1996, , .		15
100	Picture archiving and communication system design issues: The importance of modelling and simulation. Journal of Digital Imaging, 1990, 3, 246-253.	1.6	14