

Christian Bettstetter

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5667731/christian-bettstetter-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65 papers	3,699 citations	22 h-index	60 g-index
68 ext. papers	4,589 ext. citations	4 avg, IF	5.9 L-index

#	Paper	IF	Citations
65	The node distribution of the random waypoint mobility model for wireless ad hoc networks. <i>IEEE Transactions on Mobile Computing</i> , 2003 , 2, 257-269	4.6	660
64	Stochastic Properties of the Random Waypoint Mobility Model. <i>Wireless Networks</i> , 2004 , 10, 555-567	2.5	454
63	On the minimum node degree and connectivity of a wireless multihop network 2002 ,		450
62	Mobility modeling in wireless networks. <i>Mobile Computing and Communications Review</i> , 2001 , 5, 55-66		280
61	Connectivity of Wireless Multihop Networks in a Shadow Fading Environment. <i>Wireless Networks</i> , 2005 , 11, 571-579	2.5	196
60	On the Connectivity of Ad Hoc Networks. <i>Computer Journal</i> , 2004 , 47, 432-447	1.3	183
59	Drone networks: Communications, coordination, and sensing. <i>Ad Hoc Networks</i> , 2018 , 68, 1-15	4.8	167
58	Interference Management for Cellular-Connected UAVs: A Deep Reinforcement Learning Approach. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2125-2140	9.6	160
57	Application-driven design of aerial communication networks 2014 , 52, 129-137		110
56	Achieving air-ground communications in 802.11 networks with three-dimensional aerial mobility 2013 ,		94
55	An Autonomous Multi-UAV System for Search and Rescue 2015 ,		84
54	Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. <i>IEEE Transactions on Mobile Computing</i> , 2012 , 11, 2109-2120	4.6	64
53	. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 4655-4669	6.8	62
52	Emergent Slot Synchronization in Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , 2010 , 9, 719-732	4.6	55
51	A Distributed End-to-End Reservation Protocol for IEEE 802.11-Based Wireless Mesh Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2006 , 24, 2018-2027	14.2	54
50	. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 1806-1816	11.9	52
49	Topology properties of Ad hoc networks with random waypoint mobility. <i>Mobile Computing and Communications Review</i> , 2003 , 7, 50-52		49

48	Code construction and decoding of parallel concatenated tail-biting codes. <i>IEEE Transactions on Information Theory</i> , 2001 , 47, 366-386	2.8	40
47	Interference Functionals in Poisson Networks. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 370-383.8		35
46	Guaranteeing global synchronization in networks with stochastic interactions. <i>New Journal of Physics</i> , 2012 , 14, 073031	2.9	34
45	Experimental analysis of multipoint-to-point UAV communications with IEEE 802.11n and 802.11ac 2015 ,		28
44	Self-organizing synchronization with inhibitory-coupled oscillators. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2012 , 7, 1-23	1.2	25
43	Drone delivery systems: job assignment and dimensioning. <i>Autonomous Robots</i> , 2019 , 43, 261-274	3	22
42	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 178-190	6.8	22
41	Handover Challenges for Cellular-Connected Drones 2019 ,		21
40	Collaborative microdrones: applications and research challenges 2008 ,		19
39	Communication and Coordination for Drone Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 79-91	0.2	19
38	Collaboration in Multi-Robot Exploration: To Meet or not to Meet?. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016 , 82, 325-337	2.9	17
37	Connectivity of wireless multihop networks in a shadow fading environment 2003 ,		16
36	Multi-objective drone path planning for search and rescue with quality-of-service requirements. <i>Autonomous Robots</i> , 2020 , 44, 1183-1198	3	15
35	An Experimental Evaluation of LTE-A Throughput for Drones 2019 ,		15
34	Convergence of Self-Organizing Pulse-Coupled Oscillator Synchronization in Dynamic Networks. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1606-1619	5.9	15
33	. <i>IEEE Transactions on Mobile Computing</i> , 2014 , 13, 2042-2057	4.6	13
32	How does interference dynamics influence packet delivery in cooperative relaying? 2013 ,		13
31	Firefly synchronization with phase rate equalization and its experimental analysis in wireless systems. <i>Computer Networks</i> , 2016 , 97, 74-87	5.4	13

30	Job Selection in a Network of Autonomous UAVs for Delivery of Goods		11
29	A Survey of Models and Design Methods for Self-organizing Networked Systems. <i>Lecture Notes in Computer Science</i> , 2009 , 37-49	0.9	11
28	Live multicast video streaming from drones: an experimental study. <i>Autonomous Robots</i> , 2020 , 44, 75-91		11
27	First experiments with a 5G-Connected drone 2020 ,		8
26	Sandsbots: Robots That Sync and Swarm. <i>IEEE Access</i> , 2020 , 8, 218752-218764	3.5	8
25	Autocorrelation and Coherence Time of Interference in Poisson Networks. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 19, 1506-1518	4.6	8
24	Fault-tolerant averaging for self-organizing synchronization in wireless ad hoc networks 2010 ,		7
23	Packet travel times in wireless relay chains under spatially and temporally dependent interference 2014 ,		6
22	Contention-Based Estimation of Neighbor Cardinality. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 542-555	4.6	6
21	Measurement-based analysis of cooperative relaying in an industrial wireless sensor network 2012 ,		6
20	Globally stable synchronization by inhibitory pulse coupling 2009 ,		6
19	Quantifying inhomogeneity of spatial point patterns. <i>Computer Networks</i> , 2017 , 115, 65-81	5.4	5
18	Semi-Blind Interference Prediction in Wireless Networks 2017 ,		5
17	Underlay device-to-device communications in LTE-A: Uplink or downlink? 2015 ,		5
16	A review of swarmalators and their potential in bio-inspired computing 2019 ,		5
15	Edge Computing in 5G for Drone Navigation: What to Offload?. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2571-2578	4.2	5
14	Experimental Study of Packet Loss in a UWB Sensor Network for Aircraft 2017 ,		4
13	Synchronization of inhibitory pulse-coupled oscillators in delayed random and line networks 2010 ,		4

12	Toward a mobility metric for comparable & reproducible results in ad hoc networks research. <i>Mobile Computing and Communications Review</i> , 2003 , 7, 58-60		4
11	A Performance Evaluation Tool for Drone Communications in 4G Cellular Networks 2019 ,		3
10	On Access Control in Cabin-Based Transport Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 2149-2156	6.1	3
9	Wireless Connectivity in Airplanes: Challenges and the Case for UWB. <i>IEEE Access</i> , 2021 , 9, 52913-52925	3.5	3
8	Towards Industrial Ultra-Wideband Networks: Experiments for Machine Vibration Monitoring. <i>IEEE Access</i> , 2020 , 8, 42576-42583	3.5	2
7	Application-Layer Rate-Adaptive Multicast Video Streaming over 802.11 for Mobile Devices 2016 ,		2
6	. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 2783-2793	6.8	1
5	Video Quality and Latency for UAV Teleoperation over LTE: A Study with ns3 2021 ,		1
4	Multidrone Systems: More Than the Sum of the Parts. <i>Computer</i> , 2021 , 54, 34-43	1.6	1
3	On Interference Dynamics in MatEn Networks. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 19, 1677-1688	1.6	1
2	Deadlocks in the synchronization of pulse-coupled oscillators on star graphs. <i>Physical Review E</i> , 2020 , 102, 062211	2.4	0
1	Performance Impact of Mobility in an Emulated IP-based Multihop Radio Access Network. <i>International Federation for Information Processing</i> , 2005 , 395-406		0