

# Christian Bettstetter

## List of Publications by Year in Descending Order

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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	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 2783-2793	6.8	1
64	Edge Computing in 5G for Drone Navigation: What to Offload?. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 2571-2578	4.2	5
63	Video Quality and Latency for UAV Teleoperation over LTE: A Study with ns3 <b>2021</b> ,		1
62	Multidrone Systems: More Than the Sum of the Parts. <i>Computer</i> , <b>2021</b> , 54, 34-43	1.6	1
61	Wireless Connectivity in Airplanes: Challenges and the Case for UWB. <i>IEEE Access</i> , <b>2021</b> , 9, 52913-52925	3.5	3
60	Deadlocks in the synchronization of pulse-coupled oscillators on star graphs. <i>Physical Review E</i> , <b>2020</b> , 102, 062211	2.4	0
59	Towards Industrial Ultra-Wideband Networks: Experiments for Machine Vibration Monitoring. <i>IEEE Access</i> , <b>2020</b> , 8, 42576-42583	3.5	2
58	Multi-objective drone path planning for search and rescue with quality-of-service requirements. <i>Autonomous Robots</i> , <b>2020</b> , 44, 1183-1198	3	15
57	First experiments with a 5G-Connected drone <b>2020</b> ,		8
56	Sandsbots: Robots That Sync and Swarm. <i>IEEE Access</i> , <b>2020</b> , 8, 218752-218764	3.5	8
55	Live multicast video streaming from drones: an experimental study. <i>Autonomous Robots</i> , <b>2020</b> , 44, 75-91	3	11
54	On Interference Dynamics in MatE Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 19, 1677-1688	4.6	1
53	Autocorrelation and Coherence Time of Interference in Poisson Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 19, 1506-1518	4.6	8
52	Interference Management for Cellular-Connected UAVs: A Deep Reinforcement Learning Approach. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 2125-2140	9.6	160
51	Drone delivery systems: job assignment and dimensioning. <i>Autonomous Robots</i> , <b>2019</b> , 43, 261-274	3	22
50	An Experimental Evaluation of LTE-A Throughput for Drones <b>2019</b> ,		15
49	Handover Challenges for Cellular-Connected Drones <b>2019</b> ,		21

48	A review of swarmalators and their potential in bio-inspired computing <b>2019</b> ,		5
47	A Performance Evaluation Tool for Drone Communications in 4G Cellular Networks <b>2019</b> ,		3
46	On Access Control in Cabin-Based Transport Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2019</b> , 20, 2149-2156	6.1	3
45	Drone networks: Communications, coordination, and sensing. <i>Ad Hoc Networks</i> , <b>2018</b> , 68, 1-15	4.8	167
44	Quantifying inhomogeneity of spatial point patterns. <i>Computer Networks</i> , <b>2017</b> , 115, 65-81	5.4	5
43	Semi-Blind Interference Prediction in Wireless Networks <b>2017</b> ,		5
42	Experimental Study of Packet Loss in a UWB Sensor Network for Aircraft <b>2017</b> ,		4
41	Convergence of Self-Organizing Pulse-Coupled Oscillator Synchronization in Dynamic Networks. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 1606-1619	5.9	15
40	Communication and Coordination for Drone Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2017</b> , 79-91	0.2	19
39	Interference Functionals in Poisson Networks. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 370-383	3.8	35
38	Collaboration in Multi-Robot Exploration: To Meet or not to Meet?. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2016</b> , 82, 325-337	2.9	17
37	Application-Layer Rate-Adaptive Multicast Video Streaming over 802.11 for Mobile Devices <b>2016</b> ,		2
36	Firefly synchronization with phase rate equalization and its experimental analysis in wireless systems. <i>Computer Networks</i> , <b>2016</b> , 97, 74-87	5.4	13
35	An Autonomous Multi-UAV System for Search and Rescue <b>2015</b> ,		84
34	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 4655-4669	6.8	62
33	Underlay device-to-device communications in LTE-A: Uplink or downlink? <b>2015</b> ,		5
32	Experimental analysis of multipoint-to-point UAV communications with IEEE 802.11n and 802.11ac <b>2015</b> ,		28
31	Application-driven design of aerial communication networks <b>2014</b> , 52, 129-137		110

30	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2014</b> , 10, 1806-1816	11.9	52
29	Packet travel times in wireless relay chains under spatially and temporally dependent interference <b>2014</b> ,		6
28	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 178-190	6.8	22
27	. <i>IEEE Transactions on Mobile Computing</i> , <b>2014</b> , 13, 2042-2057	4.6	13
26	Achieving air-ground communications in 802.11 networks with three-dimensional aerial mobility <b>2013</b> ,		94
25	How does interference dynamics influence packet delivery in cooperative relaying? <b>2013</b> ,		13
24	Contention-Based Estimation of Neighbor Cardinality. <i>IEEE Transactions on Mobile Computing</i> , <b>2013</b> , 12, 542-555	4.6	6
23	Temporal Correlation of Interference in Wireless Networks with Rayleigh Block Fading. <i>IEEE Transactions on Mobile Computing</i> , <b>2012</b> , 11, 2109-2120	4.6	64
22	Self-organizing synchronization with inhibitory-coupled oscillators. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , <b>2012</b> , 7, 1-23	1.2	25
21	Guaranteeing global synchronization in networks with stochastic interactions. <i>New Journal of Physics</i> , <b>2012</b> , 14, 073031	2.9	34
20	Measurement-based analysis of cooperative relaying in an industrial wireless sensor network <b>2012</b> ,		6
19	Fault-tolerant averaging for self-organizing synchronization in wireless ad hoc networks <b>2010</b> ,		7
18	Synchronization of inhibitory pulse-coupled oscillators in delayed random and line networks <b>2010</b> ,		4
17	Emergent Slot Synchronization in Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2010</b> , 9, 719-732	4.6	55
16	Globally stable synchronization by inhibitory pulse coupling <b>2009</b> ,		6
15	A Survey of Models and Design Methods for Self-organizing Networked Systems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 37-49	0.9	11
14	Collaborative microdrones: applications and research challenges <b>2008</b> ,		19
13	A Distributed End-to-End Reservation Protocol for IEEE 802.11-Based Wireless Mesh Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2006</b> , 24, 2018-2027	14.2	54

12	Connectivity of Wireless Multihop Networks in a Shadow Fading Environment. <i>Wireless Networks</i> , <b>2005</b> , 11, 571-579	2.5	196
11	Performance Impact of Mobility in an Emulated IP-based Multihop Radio Access Network. <i>International Federation for Information Processing</i> , <b>2005</b> , 395-406		0
10	On the Connectivity of Ad Hoc Networks. <i>Computer Journal</i> , <b>2004</b> , 47, 432-447	1.3	183
9	Stochastic Properties of the Random Waypoint Mobility Model. <i>Wireless Networks</i> , <b>2004</b> , 10, 555-567	2.5	454
8	Connectivity of wireless multihop networks in a shadow fading environment <b>2003</b> ,		16
7	Topology properties of Ad hoc networks with random waypoint mobility. <i>Mobile Computing and Communications Review</i> , <b>2003</b> , 7, 50-52		49
6	The node distribution of the random waypoint mobility model for wireless ad hoc networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2003</b> , 2, 257-269	4.6	660
5	Toward a mobility metric for comparable & reproducible results in ad hoc networks research. <i>Mobile Computing and Communications Review</i> , <b>2003</b> , 7, 58-60		4
4	On the minimum node degree and connectivity of a wireless multihop network <b>2002</b> ,		450
3	Code construction and decoding of parallel concatenated tail-biting codes. <i>IEEE Transactions on Information Theory</i> , <b>2001</b> , 47, 366-386	2.8	40
2	Mobility modeling in wireless networks. <i>Mobile Computing and Communications Review</i> , <b>2001</b> , 5, 55-66		280
1	Job Selection in a Network of Autonomous UAVs for Delivery of Goods		11