

Horst Hellbrück

List of Publications by Year in descending order

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64
papers

813
citations

1163117

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h-index

1125743

13
g-index

66
all docs

66
docs citations

66
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	TraCl. , 2008, , .		314
2	VANET Simulation Environment with Feedback Loop and its Application to Traffic Light Assistance. , 2008, , .		37
3	AutoCast: An Adaptive Data Dissemination Protocol for Traffic Information Systems. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	34
4	Using and operating wireless sensor network testbeds with WISEBED. , 2011, , .		29
5	Accurate radio distance estimation by phase measurements with multiple frequencies. , 2014, , .		29
6	Middleware for smart gateways connecting sensornets to the internet. , 2010, , .		21
7	Practical experiences on mobile inter-body-area-networking. , 2007, , .		19
8	MINE and MILE. Mobile Computing and Communications Review, 2004, 8, 19-36.	1.7	18
9	MAMPI-UWBâ€™ Multipath-Assisted Device-Free Localization with Magnitude and Phase Information with UWB Transceivers. Sensors, 2020, 20, 7090.	3.8	18
10	Comparison of wired and wireless synchronization with clock drift compensation suited for U-TDoA localization. , 2016, , .		17
11	CCN-WSN - A lightweight, flexible Content-Centric Networking protocol for wireless sensor networks. , 2013, , .		15
12	S-TDoA â€™ Sequential time difference of arrival â€™ A scalable and synchronization free approach forl Positioning. , 2016, , .		15
13	Iterative approach for anchor configuration of positioning systems. ICT Express, 2016, 2, 1-4.	4.8	13
14	SAFH - Smooth Adaptive Frequency Hopping. , 2011, , .		11
15	Introduction, discussion and evaluation of recursive Bayesian filters for linear and nonlinear filtering problems in indoor localization. , 2016, , .		11
16	Underwater Ultrasonic Multipath Diffraction Model for Short Range Communication and Sensing Applications. IEEE Sensors Journal, 2021, 21, 22934-22943.	4.7	11
17	Indoor Positioning via Artificial Magnetic Fields. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	11
18	Efficient Data Aggregation with CCNx in Wireless Sensor Networks. Lecture Notes in Computer Science, 2013, , 209-220.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Precise indoor altitude estimation based on differential barometric sensing for wireless medical applications. , 2013, , .		9
20	Empowered by wireless communication. ACM Transactions on Autonomous and Adaptive Systems, 2010, 5, 1-30.	0.8	8
21	Evaluation of radio based, optical and barometric localization for indoor altitude estimation in medical applications. , 2014, , .		8
22	Survey of challenges and towards a unified architecture for location systems. Journal of Network and Computer Applications, 2016, 67, 75-85.	9.1	8
23	Modeling the Magnitude and Phase of Multipath UWB Signals for the Use in Passive Localization. , 2019, , .		8
24	Methods for Improving the Flow of Traffic. , 2011, , 447-460.		8
25	Limitations of Frequency Hopping in 2.4 GHz ISM-Band for medical applications due to interference. , 2011, , .		7
26	Name-Centric Service Architecture for Cyber-Physical Systems (Short Paper). , 2013, , .		7
27	QRPos: Indoor positioning system for self-balancing robots based on QR codes. , 2016, , .		7
28	Underwater Electric Field Communication. , 2014, , .		6
29	Simulation and Evaluation of an Optical Channel Model for Underwater Communication. , 2015, , .		6
30	A flexible and modular platform for development of short-range underwater communication. , 2016, , .		6
31	Impact of altitude difference for Local Positioning Systems and compensation with two-stage estimators. , 2016, , .		6
32	Contact-Free Biosignal Acquisition via Capacitive and Ultrasonic Sensors. IEEE Access, 2020, 8, 95629-95641.	4.2	6
33	Designing a Decentralized Traffic Information System "AutoNomos. Informatik Aktuell, 2009, , 309-315.	0.6	6
34	Modeling received signal strength and multipath propagation effects of moving persons. , 2017, , .		5
35	GRAPE - Gradient based Routing for All PurposE. , 2007, , .		4
36	MAMPI "Multipath-assisted Device-free Localization with Magnitude and Phase Information. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	Comparison of I/Q- and Magnitude-based UWB Channel Impulse Responses for Device-free Localization. , 2021, , .		4
38	Brachialis Pulse Wave Measurements with Ultra-Wide Band and Continuous Wave Radar, Photoplethysmography and Ultrasonic Doppler Sensors. Sensors, 2021, 21, 165.	3.8	4
39	A Model-based Approach for Self-healing IoT Systems. , 2018, , .		4
40	Measurement of Blood Pressure by Ultrasoundâ€”The Applicability of Devices, Algorithms and a View in Local Hemodynamics. Diagnostics, 2021, 11, 2255.	2.6	4
41	FRED - An Application for a Real-Life Large Scale Multihop Ad Hoc Network. , 2008, , .		3
42	API for data dissemination protocols - evaluation with AutoCast. , 2011, , .		3
43	Integrating expert system CLIPS into DUNE for AUV control. , 2015, , .		3
44	Indoor localization based on bi-phase measurements for wireless sensor networks. , 2015, , .		3
45	Wireless Underwater Communication via Analog OFDM Modulated Light. , 2017, , .		3
46	Transparent Integration of Non-IP WSN into IP Based Networks. , 2012, , .		2
47	A reusable and extendable testbed for implementation and evaluation of cooperative sensing. , 2013, , .		2
48	Tool chain for application development with name-centric services. , 2015, , .		2
49	Architecture and message processing for name-centric services in wireless sensor networks. , 2016, , .		2
50	Cooperative spectrum sensing protocols and evaluation with IEEE 802.15.4 devices. Physical Communication, 2016, 19, 93-105.	2.1	2
51	CSOR. , 2011, , .		1
52	Performance evaluation of cooperative sensing via IEEE 802.15.4 radio. , 2015, , .		1
53	Design of expert systems for autonomous underwater vehicle control. , 2016, , .		1
54	Embedded multibeam sonar feature extraction for online AUV control. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
55	Testbed for development of networked autonomous underwater vehicles. , 2016, , .		1
56	Memory Efficient Forwarding Information Base for Content Centric Networking. International Journal of Computer Networks and Communications, 2017, 9, 67-85.	0.3	1
57	FitFone: Tracking Home Workout in Pandemic Times. , 2021, , .		1
58	Evaluation of 3-dimensional Electrical Impedance Tomography-Arrays for Underwater Object Detection. , 2022, , .		1
59	Spectral Ultrasonic Underwater Buried Object Detection and Localization. , 2022, , .		1
60	Fast prototyping for VANET applications with PDAs. , 2009, , .		0
61	Location Awareness in the Internet of Things. Advances in Intelligent Systems and Computing, 2021, , 249-265.	0.6	0
62	Cooperative Virtual Memory for Sensor Nodes. Lecture Notes in Computer Science, 2010, , 186-189.	1.3	0
63	Real-World G-Lab: Integrating Wireless Sensor Networks with the Future Internet. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 577-579.	0.3	0
64	Receiving More than Data - A Signal Model and Theory of a Cognitive IEEE 802.15.4 Receiver. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 549-561.	0.3	0