

Gerhard Bauch

List of Publications by Year in descending order

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23
papers

449
citations

1039880

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all docs

23
docs citations

23
times ranked

364
citing authors

#	ARTICLE	IF	CITATIONS
1	Harnessing NLOS Components for Position and Orientation Estimation in 5G Millimeter Wave MIMO. IEEE Transactions on Wireless Communications, 2019, 18, 93-107.	6.1	103
2	Enabling Situational Awareness in Millimeter Wave Massive MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1196-1211.	7.3	72
3	Information-Optimum LDPC Decoders Based on the Information Bottleneck Method. IEEE Access, 2018, 6, 4054-4071.	2.6	57
4	A Spatiotemporal Model for Peak Aol in Uplink IoT Networks: Time Versus Event-Triggered Traffic. IEEE Internet of Things Journal, 2020, 7, 6762-6777.	5.5	57
5	Decoding Rate-Compatible 5G-LDPC Codes With Coarse Quantization Using the Information Bottleneck Method. IEEE Open Journal of the Communications Society, 2020, 1, 646-660.	4.4	21
6	Inactivation Decoding of LT and Raptor Codes: Analysis and Code Design. IEEE Transactions on Communications, 2017, , 1-1.	4.9	17
7	Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. IEEE Internet of Things Journal, 2021, 8, 1477-1491.	5.5	14
8	Position-Constrained Stochastic Inference for Cooperative Indoor Localization. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 454-468.	1.6	13
9	Spatiotemporal Dependable Task Execution Services in MEC-Enabled Wireless Systems. IEEE Wireless Communications Letters, 2021, 10, 211-215.	3.2	11
10	Information-Optimum LDPC Decoders with Message Alignment for Irregular Codes. , 2018, , .		10
11	Localization, Mapping, and Synchronization in 5G Millimeter Wave Massive MIMO Systems. , 2019, , .		10
12	LT code design for inactivation decoding. , 2014, , .		8
13	Distance Spectrum of Fixed-Rate Raptor Codes With Linear Random Precoders. IEEE Journal on Selected Areas in Communications, 2016, 34, 422-436.	9.7	8
14	Bounds on the Error Probability of Raptor Codes Under Maximum Likelihood Decoding. IEEE Transactions on Information Theory, 2021, 67, 1537-1558.	1.5	8
15	Reconstruction-Computation-Quantization (RCQ): A Paradigm for Low Bit Width LDPC Decoding. IEEE Transactions on Communications, 2022, 70, 2213-2226.	4.9	8
16	Information Bottleneck Decoding of Rate-Compatible 5G-LDPC Codes. , 2020, , .		7
17	A Reconstruction-Computation-Quantization (RCQ) Approach to Node Operations in LDPC Decoding. , 2020, , .		7
18	Bounds on the Error Probability of Raptor Codes. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
19	Communication Analysis Between an Airborne Mobile User and a Terrestrial Mobile Network. IEEE Transactions on Vehicular Technology, 2018, 67, 3457-3465.	3.9	5
20	Reduced-Complexity Optimization of Distributed Quantization Using the Information Bottleneck Principle. IEEE Open Journal of the Communications Society, 2021, 2, 1267-1278.	4.4	3
21	On the weight distribution of fixed-rate Raptor codes. , 2015, , .		2
22	Fast Inference for Situational Awareness in 5G Millimeter Wave Massive MIMO Systems. , 2019, , .		2
23	Information Bottleneck Signal Processing and Learning to Maximize Relevant Information for Communication Receivers. Entropy, 2022, 24, 972.	1.1	1