Cedomir Stefanovic

List of Publications by Year
in descending order

87 papers	3,733 citations	304743 22 h-index	289244 40 g-index
88 all docs	88 docs citations	88 times ranked	3348 citing authors

#	Article	IF	Citations
1	Massive machine-type communications in 5g: physical and MAC-layer solutions. , 2016, 54, 59-65.		541
2	Sparse Signal Processing for Grant-Free Massive Connectivity: A Future Paradigm for Random Access Protocols in the Internet of Things. IEEE Signal Processing Magazine, 2018, 35, 88-99.	5.6	314
3	Wireless Access in Ultra-Reliable Low-Latency Communication (URLLC). IEEE Transactions on Communications, 2019, 67, 5783-5801.	7.8	282
4	Wireless Access for Ultra-Reliable Low-Latency Communication: Principles and Building Blocks. IEEE Network, 2018, 32, 16-23.	6.9	268
5	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 5363-5374.	7.9	211
6	Towards Massive Connectivity Support for Scalable mMTC Communications in 5G Networks. IEEE Access, 2018, 6, 28969-28992.	4.2	188
7	Coded random access: applying codes on graphs to design random access protocols. , 2015, 53, 144-150.		171
8	Small-Signal Analysis of the Microgrid Secondary Control Considering a Communication Time Delay. IEEE Transactions on Industrial Electronics, 2016, 63, 6257-6269.	7.9	171
9	ALOHA Random Access that Operates as a Rateless Code. IEEE Transactions on Communications, 2013, 61, 4653-4662.	7.8	132
10	Frameless ALOHA Protocol for Wireless Networks. IEEE Communications Letters, 2012, 16, 2087-2090.	4.1	104
11	Delay and Communication Tradeoffs for Blockchain Systems With Lightweight IoT Clients. IEEE Internet of Things Journal, 2019, 6, 2354-2365.	8.7	90
12	Code-expanded random access for machine-type communications. , 2012, , .		76
13	Assessment of LTE Wireless Access for Monitoring of Energy Distribution in the Smart Grid. IEEE Journal on Selected Areas in Communications, 2016, 34, 675-688.	14.0	67
14	Grant-Free Radio Access for Short-Packet Communications over 5G Networks. , 2017, , .		62
15	What can wireless cellular technologies do about the upcoming smart metering traffic?. , 2015, 53, 41-47.		54
16	Reliable and Efficient Access for Alarm-Initiated and Regular M2M Traffic in IEEE 802.11ah Systems. IEEE Internet of Things Journal, 2016, 3, 673-682.	8.7	46
17	Software-Defined Microgrid Control for Resilience Against Denial-of-Service Attacks. IEEE Transactions on Smart Grid, 2019, 10, 5258-5268.	9.0	45
18	M2M massive wireless access: Challenges, research issues, and ways forward. , 2013, , .		43

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19	Codeâ€expanded radio access protocol for machineâ€toâ€machine communications. Transactions on Emerging Telecommunications Technologies, 2013, 24, 355-365.	3.9	40
20	Asymptotic Performance of Coded Slotted ALOHA With Multipacket Reception. IEEE Communications Letters, 2018, 22, 105-108.	4.1	40
21	On the Latency-Energy Performance of NB-IoT Systems in Providing Wide-Area IoT Connectivity. IEEE Transactions on Green Communications and Networking, 2020, 4, 57-68.	5.5	39
22	Compressive coded random access for massive MTC traffic in 5G systems. , 2015, , .		38
23	On the Modeling and Performance Assessment of Random Access With SIC. IEEE Journal on Selected Areas in Communications, 2018, 36, 292-303.	14.0	36
24	Coded Pilot Random Access for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 8035-8046.	9.2	36
25	Reliable Reporting for Massive M2M Communications With Periodic Resource Pooling. IEEE Wireless Communications Letters, 2014, 3, 429-432.	5.0	35
26	Rateless packet approach for data gathering in wireless sensor networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 1169-1179.	14.0	28
27	Characterization of coded random access with compressive sensing based multi-user detection. , 2014, , .		28
28	Efficient LTE access with collision resolution for massive M2M communications. , 2014, , .		26
29	Communication Aspects of the Integration of Wireless IoT Devices with Distributed Ledger Technology. IEEE Network, 2020, 34, 47-53.	6.9	26
30	Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes. IEEE Journal on Selected Areas in Communications, 2011, 29, 94-102.	14.0	25
31	Exploiting capture effect in frameless ALOHA for massive wireless random access. , 2014, , .		24
32	Massive M2M access with reliability guarantees in LTE systems. , 2015, , .		24
33	Multiuser Communication Through Power Talk in DC MicroGrids. IEEE Journal on Selected Areas in Communications, 2016, 34, 2006-2021.	14.0	23
34	Latency-Energy Tradeoff Based on Channel Scheduling and Repetitions in NB-IoT Systems. , 2018, , .		19
35	Random Access for Machine-Type Communication Based on Bloom Filtering. , 2016, , .		18
36	Analysis of the LTE Access Reservation Protocol for Real-Time Traffic. IEEE Communications Letters, 2013, 17, 1616-1619.	4.1	15

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37	Reengineering GSM/GPRS towards a dedicated network for massive smart metering. , 2014, , .		15
38	Power Talk: How to Modulate Data over a DC Micro Grid Bus Using Power Electronics. , 2015, , .		15
39	On the Impact of Wireless Jamming on the Distributed Secondary Microgrid Control. , 2016, , .		14
40	Joint estimation and contention-resolution protocol for wireless random access. , 2013, , .		13
41	Finite-Length Analysis of Frameless ALOHA With Multi-User Detection. IEEE Communications Letters, 2017, 21, 769-772.	4.1	13
42	A Packet-Centric Approach to Distributed Rateless Coding in Wireless Sensor Networks. , 2009, , .		12
43	Interference Spins: Scheduling of Multiple Interfering Two-Way Wireless Links. IEEE Communications Letters, 2015, 19, 387-390.	4.1	12
44	Frameless ALOHA with Reliability-Latency Guarantees. , 2017, , .		12
45	Sign-Compute-Resolve for Tree Splitting Random Access. IEEE Transactions on Information Theory, 2018, 64, 5261-5276.	2.4	12
46	Reliability-Latency Performance of Frameless ALOHA With and Without Feedback. IEEE Transactions on Communications, 2020, 68, 6302-6316.	7.8	12
47	How many smart meters can be deployed in a GSM cell?. , 2013, , .		11
48	Sign-compute-resolve for random access. , 2014, , .		11
49	Power talk in DC micro grids: Constellation design and error probability performance. , 2015, , .		10
50	Content-Based Wake-Up for Top-k Query in Wireless Sensor Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 362-377.	5.5	10
51	A pseudo-Bayesian approach to sign-compute-resolve slotted ALOHA. , 2015, , .		9
52	Joint Compression, Channel Coding, and Retransmission for Data Fidelity With Energy Harvesting. IEEE Transactions on Communications, 2018, 66, 1425-1439.	7.8	9
53	On the Search for a Sequence from a Predefined Set of Sequences in Random and Framed Data Streams. IEEE Transactions on Communications, 2012, 60, 189-197.	7.8	8
54	Power Talk: A novel power line communication in DC MicroGrid. , 2016, , .		8

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55	Raptor packets: A packet-centric approach to distributed raptor code design. , 2009, , .		7
56	Coded slotted ALOHA with varying packet loss rate across users. , 2013, , .		7
57	Power Talk for Multibus DC MicroGrids: Creating and Optimizing Communication Channels. , 2016, , .		7
58	Anti-jamming strategy for distributed microgrid control based on Power Talk communication. , 2017, , .		7
59	Decentralized DC Microgrid Monitoring and Optimization via Primary Control Perturbations. IEEE Transactions on Signal Processing, 2018, 66, 3280-3295.	5.3	7
60	Energy-Efficient and Reliable IoT Access Without Radio Resource Reservation. IEEE Transactions on Green Communications and Networking, 2021, 5, 908-920.	5.5	7
61	Contaminated areas monitoring via distributed rateless coding with constrained data gathering. , 2010, , .		6
62	A random linear coding scheme with perimeter data gathering for wireless sensor networks. , 2011, , .		6
63	Resilient and Secure Low-Rate Connectivity for Smart Energy Applications through Power Talk in DC Microgrids. , 2017, 55, 83-89.		6
64	Coded Random Access. Signals and Communication Technology, 2018, , 339-359.	0.5	6
65	Secure and robust authentication for DC MicroGrids based on power talk communication. , 2017, , .		5
66	Coded Slotted Aloha over the On-Off Fading Channel: Performance Bounds. , 2019, , .		5
67	Arctic Connectivity: A Frugal Approach to Infrastructural Development. Arctic, 2022, 75, 72-85.	0.4	5
68	On distributed LDGM and LDPC code design for networked systems. , 2009, , .		4
69	Fireworks: A random linear coding scheme for distributed storage in wireless sensor networks. , 2010, , .		4
70	Packet-centric approach to distributed sparse-graph coding in wireless ad hoc networks. Ad Hoc Networks, 2013, 11, 167-181.	5.5	4
71	A novel robust communication algorithm for distributed secondary control of islanded MicroGrids. , 2013, , .		4
72	Coded splitting tree protocols. , 2013, , .		4

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73	SUNSEED &#x2014; An evolutionary path to smart grid comms over converged telco and energy provider networks. , 2014, , .		4
74	Minimizing Data Distortion of Periodically Reporting IoT Devices with Energy Harvesting. , 2017, , .		4
75	Power Talk: How to Modulate Data over a DC Micro Grid Bus Using Power Electronics. , 2014, , .		3
76	Spectrum Slicing for Multiple Access Channels with Heterogeneous Services. Entropy, 2021, 23, 686.	2.2	3
77	Communication-Theoretic Model of Power Talk for a Single-Bus DC Microgrid. Information (Switzerland), 2016, 7, 18.	2.9	2
78	Distributed estimation of the operating state of a single-bus DC microgrid without an external communication interface. , 2016, , .		2
79	Repeat-Authenticate Scheme for Multicasting of Blockchain Information in IoT Systems. , 2019, , .		2
80	Modemless Multiple Access Communications Over Powerlines for DC Microgrid Control. Lecture Notes in Computer Science, 2016, , 30-44.	1.3	2
81	Identifying randomly activated users via sign-compute-resolve on graphs. , 2016, , .		1
82	Cellular 5G Access for Massive Internet of Things. , 0, , 380-401.		1
83	Statistical Analysis of Search for Set of Sequences in Random and Framed Data. Lecture Notes in Computer Science, 2010, , 320-332.	1.3	1
84	RAN Slicing Performance Tradeoffs: Timing Versus Throughput Requirements. IEEE Open Journal of the Communications Society, 2022, 3, 622-640.	6.9	1
85	On energy efficiency of rateless packet scheme for distributed data storage in wireless sensor networks. , 2010, , .		0
86	Probabilistic handshake in all-to-all broadcast coded slotted ALOHA. , 2015, , .		0
87	Acquisition Times of Contiguous and Distributed Marker Sequences: A Cross-Bifix Analysis. Lecture Notes in Computer Science, 2010, , 55-66.	1.3	0