Jean-Yves Le Boudec

List of Publications by Year
in descending order

58 papers	1,723 citations	430442 18 h-index	315357 38 g-index
58 all docs	58 docs citations	58 times ranked	1305 citing authors

#	Article	IF	Citations
1	On Packet Reordering in Time-Sensitive Networks. IEEE/ACM Transactions on Networking, 2022, 30, 1045-1057.	2.6	7
2	Analysis of Dampers in Time-Sensitive Networks With Non-Ideal Clocks. IEEE/ACM Transactions on Networking, 2022, 30, 1780-1794.	2.6	3
3	Deficit Round-Robin: A Second Network Calculus Analysis. IEEE/ACM Transactions on Networking, 2022, 30, 2216-2230.	2.6	5
4	Worst-Case Delay Bounds in Time-Sensitive Networks With Packet Replication and Elimination. IEEE/ACM Transactions on Networking, 2022, 30, 2701-2715.	2.6	3
5	TDOA Source-Localization Technique Robust to Time-Synchronization Attacks. IEEE Transactions on Information Forensics and Security, 2021, 16, 4249-4264.	4.5	9
6	Online Battery Storage Management via Lyapunov Optimization in Active Distribution Grids. IEEE Transactions on Control Systems Technology, 2021, 29, 672-690.	3.2	9
7	Admissibility of Uncertain Injections in Quadratic Algebraic Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 379-390.	2.4	0
8	On the Solution of the Optimal Power Flow for Three-Phase Radial Distribution Networks With Energy Storage. IEEE Transactions on Control of Network Systems, 2021, 8, 187-199.	2.4	2
9	Interleaved Weighted Round-Robin: A Network Calculus Analysis. IEICE Transactions on Communications, 2021, E104.B, 1479-1493.	0.4	11
10	Time-Synchronization Attack Detection in Unbalanced Three-Phase Systems. IEEE Transactions on Smart Grid, 2021, 12, 4460-4470.	6.2	5
11	Compound Admittance Matrix Estimation of Three-Phase Untransposed Power Distribution Grids Using Synchrophasor Measurements. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	19
12	Feasibility of Time-Synchronization Attacks Against PMU-Based State Estimation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3412-3427.	2.4	28
13	A receding horizon control approach for re-dispatching stochastic heterogeneous resources accounting for grid and battery losses. Electric Power Systems Research, 2020, 185, 106340.	2.1	10
14	Parameter Estimation of Three-Phase Untransposed Short Transmission Lines From Synchrophasor Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6143-6154.	2.4	27
15	Real-Time Control of an Electric Vehicle Charging Station While Tracking an Aggregated Power Setpoint. IEEE Transactions on Industry Applications, 2020, 56, 5750-5761.	3.3	9
16	On Time Synchronization Issues in Time-Sensitive Networks with Regulators and Nonideal Clocks. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2020, 4, 1-41.	1.4	3
17	Interleaved Weighted Round-Robin: A Network Calculus Analysis. , 2020, , .		5
18	Improved Delay Bound for a Service Curve Element With Known Transmission Rate. IEEE Networking Letters, 2019, 1, 156-159.	1.5	11

#	Article	IF	Citations
19	Improved Credit Bounds for the Credit-Based Shaper in Time-Sensitive Networking. IEEE Networking Letters, 2019, 1, 136-139.	1.5	16
20	On Cyclic Dependencies and Regulators in Time-Sensitive Networks. , 2019, , .		13
21	FCR: Fast and Consistent Controller-Replication in Software Defined Networking. IEEE Access, 2019, 7, 170589-170603.	2.6	2
22	Controlling the Electrical State via Uncertain Power Injections in Three-Phase Distribution Networks. IEEE Transactions on Smart Grid, 2019, 10, 1349-1362.	6.2	6
23	Axo: Detection and Recovery for Delay and Crash Faults in Real-Time Control Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 3065-3075.	7.2	6
24	Load Flow in Multiphase Distribution Networks: Existence, Uniqueness, Non-Singularity and Linear Models. IEEE Transactions on Power Systems, 2018, 33, 5832-5843.	4.6	98
25	Experimental Validation of an Explicit Power-Flow Primary Control in Microgrids. IEEE Transactions on Industrial Informatics, 2018, 14, 4779-4791.	7.2	9
26	Undetectable Timing-Attack on Linear State-Estimation by Using Rank-1 Approximation. IEEE Transactions on Smart Grid, 2018, 9, 3530-3542.	6.2	25
27	Dispatching Stochastic Heterogeneous Resources Accounting for Grid and Battery Losses. IEEE Transactions on Smart Grid, 2018, 9, 6522-6539.	6.2	37
28	An Exact Convex Formulation of the Optimal Power Flow in Radial Distribution Networks Including Transverse Components. IEEE Transactions on Automatic Control, 2018, 63, 682-697.	3.6	69
29	Multiphase Optimal and Non-Singular Power Flow by Successive Linear Approximations. , 2018, , .		4
30	Experimental validation of the suitability of virtualization-based replication for fault tolerance in real-time control of electric grids. , 2018, , .		0
31	A Theory of Traffic Regulators for Deterministic Networks With Application to Interleaved Regulators. IEEE/ACM Transactions on Networking, 2018, 26, 2721-2733.	2.6	41
32	Latency and Backlog Bounds in Time-Sensitive Networking with Credit Based Shapers and Asynchronous Traffic Shaping. , 2018, , .		44
33	Influencing the bulk power system reserve by dispatching power distribution networks using local energy storage. Electric Power Systems Research, 2018, 163, 270-279.	2.1	20
34	AC OPF in radial distribution networks â€" Part II: An augmented Lagrangian-based OPF algorithm, distributable via primal decomposition. Electric Power Systems Research, 2017, 150, 24-35.	2.1	23
35	AC OPF in radial distribution networks â€" Part I: On the limits of the branch flow convexification and the alternating direction method of multipliers. Electric Power Systems Research, 2017, 143, 438-450.	2.1	52
36	Existence and Uniqueness of Load-Flow Solutions in Three-Phase Distribution Networks. IEEE Transactions on Power Systems, 2017, 32, 3319-3320.	4.6	29

#	Article	IF	Citations
37	T-RECS: A software testbed for multi-agent real-time control of electric grids. , 2017, , .		4
38	Axo: Masking delay faults in real-time control systems. , 2016, , .		8
39	Cyber-attack on packet-based time synchronization protocols: The undetectable Delay Box. , 2016, , .		33
40	A composable method for real-time control of active distribution networks with explicit power setpoints. Part II: Implementation and validation. Electric Power Systems Research, 2015, 125, 265-280.	2.1	43
41	A composable method for real-time control of active distribution networks with explicit power setpoints. Part I: Framework. Electric Power Systems Research, 2015, 125, 254-264.	2.1	113
42	Real-time state estimation of the EPFL-campus medium-voltage grid by using PMUs. , 2015, , .		94
43	Cyber-secure communication architecture for active power distribution networks. , 2014, , .		12
44	Handling very large numbers of messages in Distributed Hash Tables. , 2009, , .		0
45	Robust non-coherent timing acquisition in IEEE 802.15.4a IR-UWB networks. , 2009, , .		6
46	Concurrent transmissions in IR-UWB networks: an experimental validation. , 2009, , .		4
47	Performance Evaluation of Impulse Radio UWB Networks Using Common or Private Acquisition Preambles. IEEE Transactions on Mobile Computing, 2009, 8, 865-879.	3.9	4
48	Efficient Broadcasting Using Network Coding. IEEE/ACM Transactions on Networking, 2008, 16, 450-463.	2.6	166
49	An energy detection receiver robust to multi-user interference for IEEE 802.15.4a networks. , 2008, , .		11
50	Performance Evaluation of an IEEE 802.15.4a Physical Layer with Energy Detection and Multi-User Interference. , 2007, , .		23
51	High-Resolution Impulse Radio Ultra Wideband Ranging. , 2007, , .		3
52	On Routing in Distributed Hash Tables. , 2007, , .		11
53	A Unified Framework for Max-Min and Min-Max Fairness With Applications. IEEE/ACM Transactions on Networking, 2007, 15, 1073-1083.	2.6	230
54	On Routing in Distributed Hash Tables. , 2007, , .		1

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55	Effect on Network Performance of Common versus Private Acquisition Sequences for Impulse Radio UWB Networks. , 2006, , .		6
56	A joint PHY/MAC architecture for low-radiated power TH-UWB wireless ad hoc networks. Wireless Communications and Mobile Computing, 2005, 5, 567-580.	0.8	73
57	Self Organized Terminode Routing. Cluster Computing, 2002, 5, 205-218.	3.5	90
58	Delay Bounds in a Network with Aggregate Scheduling. Lecture Notes in Computer Science, 2000, , 1-13.	1.0	128