

# Tomaso Erseghe

## List of Publications by Year in descending order

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37  
papers

916  
citations

933447

10  
h-index

580821

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g-index

37  
all docs

37  
docs citations

37  
times ranked

1019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Optimal Power Flow Using ADMM. IEEE Transactions on Power Systems, 2014, 29, 2370-2380.	6.5	405
2	Coding in the Finite-Blocklength Regime: Bounds Based on Laplace Integrals and Their Asymptotic Approximations. IEEE Transactions on Information Theory, 2016, 62, 6854-6883.	2.4	96
3	Topology Estimation for Smart Micro Grids via Powerline Communications. IEEE Transactions on Signal Processing, 2013, 61, 3368-3377.	5.3	51
4	A Distributed and Scalable Processing Method Based Upon ADMM. IEEE Signal Processing Letters, 2012, 19, 563-566.	3.6	46
5	Power Flow Optimization for Smart Microgrids by SDP Relaxation on Linear Networks. IEEE Transactions on Smart Grid, 2013, 4, 751-762.	9.0	38
6	A distributed approach to the OPF problem. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	35
7	On the Evaluation of the Polyanskiy-Poor's Converse Bound for Finite Block-Length Coding in AWGN. IEEE Transactions on Information Theory, 2015, 61, 6578-6590.	2.4	35
8	A Distributed and Maximum-Likelihood Sensor Network Localization Algorithm Based Upon a Nonconvex Problem Formulation. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 247-258.	2.8	33
9	On UWB Impulse Radio Receivers Derived by Modeling MAI as a Gaussian Mixture Process. IEEE Transactions on Wireless Communications, 2008, 7, 2388-2396.	9.2	31
10	Cooperative Localization in WSNs: A Hybrid Convex/Nonconvex Solution. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 162-172.	2.8	24
11	Distance measurement over PLC for dynamic grid mapping of smart micro grids. , 2011, , .		12
12	Fast clock synchronization in wireless sensor networks via ADMM-based consensus. , 2011, , .		11
13	Distributed Learning Algorithms for Optimal Data Routing in IoT Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 179-195.	2.8	10
14	Towards Sustainable Edge Computing Through Renewable Energy Resources and Online, Distributed and Predictive Scheduling. IEEE Transactions on Network and Service Management, 2022, 19, 306-321.	4.9	9
15	Maximum Likelihood Frequency Offset Estimation in Multiple Access Time-Hopping UWB. IEEE Transactions on Wireless Communications, 2011, 10, 2040-2045.	9.2	8
16	New Results on the Spectral Analysis of Multi-h CPM Signals. IEEE Transactions on Communications, 2011, 59, 1893-1903.	7.8	8
17	Markov Decision Processes with Threshold Based Piecewise Linear Optimal Policies. IEEE Wireless Communications Letters, 2013, 2, 459-462.	5.0	7
18	Design and performance evaluation of a full-duplex operating receiver for time-hopping UWB. Mobile Networks and Applications, 2006, 11, 429-439.	3.3	6

#	ARTICLE	IF	CITATIONS
19	An Analysis of GLRT Packet Detection for WiMedia UWB Applications. IEEE Transactions on Vehicular Technology, 2010, 59, 1229-1241.	6.3	6
20	Elastic and Predictive Allocation of Computing Tasks in Energy Harvesting IoT Edge Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 1772-1788.	6.4	6
21	UWB WPAN receiver optimization in the presence of multiuser interference. IEEE Transactions on Communications, 2009, 57, 2369-2379.	7.8	5
22	Distributed control of smart microgrids by dynamic grid mapping. , 2011, , .		4
23	Reactive power compensation in smart micro grids: A prime-based testbed. , 2012, , .		4
24	Microgrid control via powerline communications: Network synchronization field tests with prime modules. , 2012, , .		4
25	Feature-based Vehicle Tracking at Roundabouts in Visual Sensor Networks. , 2020, , .		4
26	Exact analytical expression of schmidl-cox signal detection performance in AWGN. IEEE Communications Letters, 2010, 14, 378-380.	4.1	3
27	A Study on the Impact of Multiview Distributed Feature Coding on a Multicamera Vehicle Tracking System at Roundabouts. IEEE Access, 2022, 10, 39502-39517.	4.2	3
28	The rise of #climateaction in the time of the FridaysForFuture movement: A semantic network analysis. Social Networks, 2023, 75, 170-185.	2.1	3
29	A low-complexity receiver for impulse radio based upon a gaussian mixture interference model. IEEE Transactions on Wireless Communications, 2008, 7, 4867-4876.	9.2	2
30	Performance of UWB Impulse Radio in strong MAI with frequency offsets estimation. , 2008, , .		2
31	New Results on the Local Linear Convergence of ADMM: A Joint Approach. IEEE Transactions on Automatic Control, 2021, 66, 5096-5111.	5.7	2
32	On Schmidl-Cox-like frequency estimation applied to UWB Impulse Radio systems. , 2009, , .		1
33	Schmidl-Cox-like Frequency Offset Estimation in Time-Hopping UWB. IEEE Transactions on Wireless Communications, 2011, 10, 4041-4047.	9.2	1
34	Coding Bounds in the Finite-Block-Length Regime: an Application to Spread-Spectrum Systems Design. , 2019, , .		1
35	Optimum control of distributed energy resources in residential micro-grids. , 2011, , .		0
36	Co-simulation of control for thermal and electrical smart micro grids on a PLC-based testbed. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	On Trading the Spreading Gain With the Coding Rate and Its Application to GNSS Data Component Design. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2526-2539.	4.7	0