

Stefano Tomasin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138
papers

2,018
citations

19
h-index

40
g-index

173
ext. papers

2,670
ext. citations

5.9
avg, IF

5.33
L-index

#	Paper	IF	Citations
138	Interference Prediction for Low-Complexity Link Adaptation in Beyond 5G Ultra-Reliable Low-Latency Communications. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	1
137	. <i>IEEE Wireless Communications</i> , 2021 , 28, 92-99	13.4	2
136	Location-Privacy Leakage and Integrated Solutions for 5G Cellular Networks and Beyond. <i>Sensors</i> , 2021 , 21,	3.8	2
135	Game-Theoretic Mode Scheduling for Dynamic TDD in 5G Systems. <i>IEEE Communications Letters</i> , 2021 , 25, 2425-2429	3.8	3
134	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4100-4112	9.6	1
133	Single-carrier modulation 2021 , 281-412		
132	. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 3496-3509	8	5
131	Context-Based Detection of GNSS Position Spoofing for Smartphones. <i>EAI/Springer Innovations in Communication and Computing</i> , 2021 , 1-28	0.6	1
130	Vector quantization 2021 , 229-248		
129	. <i>IEEE Vehicular Technology Magazine</i> , 2020 , 15, 72-78	9.9	0
128	. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 2026-2040	14.2	15
127	Modular Hybrid Beamforming for mmWave Fixed Wireless Access. <i>IEEE Transactions on Communications</i> , 2020 , 68, 5145-5158	6.9	2
126	A D2D-Based Solution for MTC Connectivity Problem in NOMA-Based Cellular IoT Networks: Dynamic User Grouping and Resource Allocation. <i>Mobile Networks and Applications</i> , 2020 , 25, 1998-2011 ^{2,9}		1
125	Requirements and Enablers of Advanced Healthcare Services over Future Cellular Systems. <i>IEEE Communications Magazine</i> , 2020 , 58, 76-81	9.1	20
124	Physical-Layer Location Verification by Machine Learning 2020 , 425-438		
123	Location-Privacy-Preserving Technique for 5G mmWave Devices. <i>IEEE Communications Letters</i> , 2020 , 24, 2692-2695	3.8	2
122	Beam-Sweeping Design Based on Nearest Users Position and Beam in 5G mmWave Networks. <i>IEEE Access</i> , 2020 , 8, 124402-124413	3.5	4

121	Spatial GNSS Spoofing Against Drone Swarms With Multiple Antennas and Wiener Filter. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 5782-5794	4.8	7
120	Fast Initial Access for mmWave 5G Systems with Hybrid Beamforming Using Online Statistics Learning. <i>IEEE Communications Magazine</i> , 2019 , 57, 132-137	9.1	12
119	Authentication of satellite navigation signals by wiretap coding and artificial noise. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2019 , 2019,	3.2	3
118	Total Energy Efficiency of TR-MRC and FD-MRC Receivers for Massive MIMO Uplink. <i>IEEE Systems Journal</i> , 2019 , 13, 2285-2296	4.3	4
117	Delay-aware spectrum sharing solutions for mixed cellular and D2D links. <i>Computer Communications</i> , 2019 , 139, 58-66	5.1	5
116	Machine Learning for In-Region Location Verification in Wireless Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2490-2502	14.2	13
115	Machine Learning for Intelligent Authentication in 5G and Beyond Wireless Networks. <i>IEEE Wireless Communications</i> , 2019 , 26, 55-61	13.4	48
114	Cooperative Authentication in Underwater Acoustic Sensor Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 954-968	9.6	14
113	. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 432-443	9.6	9
112	Analysis of Channel-Based User Authentication by Key-Less and Key-Based Approaches. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 5700-5712	9.6	11
111	Exploiting side-information for resilient GNSS positioning in mobile phones 2018 ,		4
110	A Machine-Learning-Based Handover Prediction for Anticipatory Techniques in Wi-Fi Networks 2018 ,		5
109	Authentication of Galileo GNSS Signal by Superimposed Signature with Artificial Noise 2018 ,		2
108	Resource Allocation for Uplink NOMA and D2D Links with MLWDF Scheduling Discipline 2018 ,		1
107	mm-Wave channel estimation with accelerated gradient descent algorithms. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2018 , 2018,	3.2	3
106	Security Analysis of LoRaWAN Join Procedure for Internet of Things Networks 2017 ,		40
105	Cluster-head based feedback for simplified time reversal prefiltering in ultra-wideband systems. <i>Physical Communication</i> , 2017 , 25, 100-109	2.2	14
104	Beamforming and Scheduling for mmWave Downlink Sparse Virtual Channels with Non-Orthogonal and Orthogonal Multiple Access 2017 ,		3

103	2017, 55, 218-224		12
102	. <i>IEEE Access</i> , 2017, 5, 19782-19798	3.5	4
101	Pre-equalized faster than Nyquist transmission for 5G cellular microwave backhaul 2016,		17
100	Pilot pattern adaptation for 5G MU-MIMO wireless communications 2016,		2
99	HARQ with Quantized 1-Bit CSI Feedback for Block Fading Wiretap Channels 2016,		1
98	. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 322-337	11.9	12
97	Performance Analysis of Transmission over AWGN Wiretap Channels with Practical Codes. <i>Lecture Notes in Electrical Engineering</i> , 2016, 53-68	0.2	2
96	MIMOME Gaussian Channels with GMM Signals in High-SNR Regime: Fundamental Limits and Tradeoffs. <i>Lecture Notes in Electrical Engineering</i> , 2016, 33-52	0.2	
95	A multi-service oriented multiple-access scheme for next-generation mobile networks 2016,		4
94	Resource Allocation for Downlink of 5G Systems with OFDMA under Secrecy Outage Constraints 2016,		3
93	Power Allocation in Multiuser Parallel Gaussian Broadcast Channels With Common and Confidential Messages. <i>IEEE Transactions on Communications</i> , 2016, 64, 2326-2339	6.9	5
92	Energy-based anchor node selection for IoT physical layer authentication 2016,		13
91	Lightweight energy management of islanded operated microgrids for prosumer communities 2015,		5
90	. <i>IEEE Transactions on Information Forensics and Security</i> , 2015, 10, 941-952	8	22
89	Taming the complexity of mm-wave massive MIMO systems: Efficient channel estimation and beamforming 2015,		7
88	Secure Communications via Physical-Layer and Information-Theoretic Techniques [Scanning the Issue]. <i>Proceedings of the IEEE</i> , 2015, 103, 1698-1701	14.3	23
87	. <i>IEEE Transactions on Information Forensics and Security</i> , 2015, 10, 2314-2324	8	4
86	. <i>IEEE Wireless Communications Letters</i> , 2015, 4, 489-492	5.9	4

85	Broadcasting Into the Uncertainty: Authentication and Confidentiality by Physical-Layer Processing. <i>Proceedings of the IEEE</i> , 2015 , 103, 1702-1724	14.3	51
84	A Gale-Shapley algorithm for allocation of relayed parallel wiretap coding channels 2015 ,		3
83	When order matters: Communication scheduling for current injection control in micro grids 2015 ,		4
82	Backhaul Rate Allocation in Uplink SC-FDMA Systems with Multicell Processing. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 1264-1273	9.6	8
81	Secure HARQ With Multiple Encoding Over Block Fading Channels: Channel Set Characterization and Outage Analysis. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 1708-1719	8	9
80	. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 1765-1779	8	24
79	Routing Over Multi-Hop Fading Wiretap Networks With Secrecy Outage Probability Constraint. <i>IEEE Communications Letters</i> , 2014 , 18, 1811-1814	3.8	4
78	Secret Key Agreement by LLR Thresholding and Syndrome Feedback over AWGN Channel. <i>IEEE Communications Letters</i> , 2014 , 18, 26-29	3.8	6
77	Pilot-based secret key agreement for reciprocal correlated MIMOME block fading channels 2014 ,		1
76	Parallel BCC with one common and two confidential messages and imperfect CSIT 2014 ,		2
75	Resource allocation for secret transmissions on parallel Rayleigh channels 2014 ,		5
74	Secret message transmission by HARQ with multiple encoding 2014 ,		5
73	Achievable secrecy rates over MIMOME Gaussian channels with GMM signals in low-noise regime 2014 ,		2
72	Topology Estimation for Smart Micro Grids via Powerline Communications. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 3368-3377	4.8	34
71	Resource allocation for secret transmissions over MIMOME fading channels 2013 ,		4
70	Power Flow Optimization for Smart Microgrids by SDP Relaxation on Linear Networks. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 751-762	10.7	31
69	Resource allocation with multicell processing, interference cancelation and backhaul rate constraint in single carrier FDMA systems. <i>Physical Communication</i> , 2013 , 8, 69-80	2.2	3
68	Low-power secret-key agreement over OFDM 2013 ,		5

67	LLR Compression for BICM Systems Using Large Constellations. <i>IEEE Transactions on Communications</i> , 2013 , 61, 2864-2875	6.9	1
66	Maximum Likelihood Estimation of Time and Carrier Frequency Offset for DVB-T2. <i>IEEE Transactions on Broadcasting</i> , 2012 , 58, 77-86	4.7	16
65	Constellation Quantization in Constrained Backhaul Downlink Network MIMO. <i>IEEE Transactions on Communications</i> , 2012 , 60, 830-839	6.9	1
64	Efficient Management of Locally Generated Powers in Microgrids 2012 , 57-78		
63	Reactive power compensation in smart micro grids: A prime-based testbed 2012 ,		1
62	Physical Layer Authentication over MIMO Fading Wiretap Channels. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 2564-2573	9.6	62
61	A practical scheduling and power/constellation allocation for three relay networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 , 2012,	3.2	1
60	Microgrid control via powerline communications: Network synchronization field tests with prime modules 2012 ,		3
59	Resource allocation for network MIMO systems with HARQ and partial channel knowledge. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 , 2012,	3.2	4
58	Low Complexity Demapping of Rotated and Cyclic Q Delayed Constellations for DVB-T2. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 81-84	5.9	18
57	Physical Layer Authentication over an OFDM Fading Wiretap Channel 2012 ,		2
56	On Optimal Cooperator Selection Policies for Multi-Hop Ad Hoc Networks. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 506-518	9.6	7
55	Distance measurement over PLC for dynamic grid mapping of smart micro grids 2011 ,		9
54	Distributed control of smart microgrids by dynamic grid mapping 2011 ,		4
53	Consensus-Based Detection of Malicious Nodes in Cooperative Wireless Networks. <i>IEEE Communications Letters</i> , 2011 , 15, 404-406	3.8	8
52	Base Station Selection in Uplink Macro Diversity Cellular Systems with Hybrid ARQ. <i>IEEE Journal on Selected Areas in Communications</i> , 2011 , 29, 1249-1259	14.2	6
51	Per Sub-Block Equalization of Very Long OFDM Blocks in Mobile Communications. <i>IEEE Transactions on Communications</i> , 2011 , 59, 363-368	6.9	12
50	Constrained optimization of local sources generation in smart grids by SDP approximation 2011 ,		3

49	Resource Allocation for the Parallel Relay Channel with Multiple Relays. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 792-802	9.6	14
48	Downlink multicell processing employing QAM quantization under a constrained backhaul 2011 ,		1
47	Uplink Cell Selection for Cooperative Multi-Cell Networks with Hybrid ARQ 2010 ,		2
46	Detection of Selfish Nodes in Networks Using CoopMAC Protocol with ARQ. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 2328-2337	9.6	17
45	On correlation-based synchronization for DVB-T2. <i>IEEE Communications Letters</i> , 2010 , 14, 248-250	3.8	11
44	A simplified greedy algorithm for joint scheduling and beamforming in multiuser MIMO OFDM. <i>IEEE Communications Letters</i> , 2010 , 14, 381-383	3.8	2
43	On Efficient Use of Local Sources in Smart Grids with Power Quality Constraints 2010 ,		9
42	ML Period Estimation With Application to Vital Sign Monitoring. <i>IEEE Signal Processing Letters</i> , 2010 , 17, 905-908	3.2	28
41	A Comparison of Scheduling Strategies for MIMO Broadcast Channel with Limited Feedback on OFDM Systems. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2010 , 2010,	3.2	3
40	Analysis of interpolated channel estimation for mobile OFDM systems. <i>IEEE Transactions on Communications</i> , 2010 , 58, 1578-1588	6.9	12
39	Single Carrier Modulation With Nonlinear Frequency Domain Equalization: An Idea Whose Time Has Come Again. <i>Proceedings of the IEEE</i> , 2010 , 98, 69-96	14.3	264
38	Sequential detection of misbehaving nodes in cooperative networks with HARQ 2009 ,		1
37	Superimposed Sequence Versus Pilot Aided Channel Estimations for Next Generation DVB-T Systems. <i>IEEE Transactions on Broadcasting</i> , 2009 , 55, 140-144	4.7	16
36	Coded Decision Directed Demodulation for Second Generation Digital Video Broadcasting Standard. <i>IEEE Transactions on Broadcasting</i> , 2009 , 55, 607-615	4.7	6
35	Multiple Adaptive Frequency Filtering for OFDM Channel Estimation. <i>IEEE Transactions on Broadcasting</i> , 2009 , 55, 826-830	4.7	2
34	Steady state analysis of coded cooperative networks with HARQ protocol. <i>IEEE Transactions on Communications</i> , 2009 , 57, 2391-2401	6.9	8
33	UWB WPAN receiver optimization in the presence of multiuser interference. <i>IEEE Transactions on Communications</i> , 2009 , 57, 2369-2379	6.9	5
32	On channel quantization and feedback strategies for multiuser MIMO-OFDM downlink systems. <i>IEEE Transactions on Communications</i> , 2009 , 57, 2645-2654	6.9	10

31	Key technologies for next-generation terrestrial digital television standard DVB-T2 2009 , 47, 146-153		56
30	Cooperative spatial multiplexing for ad hoc networks with hybrid ARQ: system design and performance analysis. <i>IEEE Transactions on Communications</i> , 2008 , 56, 1545-1555	6.9	18
29	Cross-Layer Optimization for Multimedia Traffic in CDMA Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 1379-1388	9.6	6
28	Optimized Demodulation for MAI Resilient UWB W-PAN Receivers 2008 ,		3
27	Channel Quantization and Feedback Optimization in Multiuser MIMO-OFDM Downlink Systems 2008 ,		2
26	Scheduling strategies for multiuser MIMO OFDM systems with limited feedback 2008 ,		1
25	Resource allocation in wireless networks with multiple relays 2008 ,		5
24	2007 ,		13
23	Joint Power Control and Receiver Optimization of CDMA Transceivers Using Successive Interference Cancellation. <i>IEEE Transactions on Communications</i> , 2007 , 55, 563-573	6.9	8
22	Interference-Resilient Block-Spreading CDMA With Minimum-MAI Sequence Design. <i>IEEE Transactions on Communications</i> , 2007 , 55, 1783-1792	6.9	2
21	Predictive Channel Quantization and Beamformer Design for MIMO-BC with Limited Feedback 2007 ,		9
20	Coded Cooperation for Ad Hoc Networks with Spatial Multiplexing 2007 ,		1
19	Physical layer approximations for cross-layer performance analysis in MIMO-BLAST ad hoc networks. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 4390-4400	9.6	13
18	Analysis of Outage Probability for Cooperative Networks with HARQ 2007 ,		15
17	Joint low-rate feedback and channel quantization for the MIMO broadcast channel 2007 ,		6
16	Low-Rate Predictive Feedback for the OFDM MIMO Broadcast Channel. <i>Signals and Communication Technology</i> , 2007 , 65-77	0.5	0
15	An Approximate Approach for Layered Space-Time Multiuser Detection Performance and its Application to MIMO Ad Hoc Networks 2006 ,		5
14	Generalized self spread-spectrum communications with turbo soft despreading and decoding. <i>Journal of Communications and Networks</i> , 2006 , 8, 267-274	4.1	1

13	Implementing interference cancellation to increase the EV-DO Rev A reverse link capacity 2006 , 44, 58-64		38
12	Efficient Bidirectional DFE for Doubly Selective Wireless Channels. <i>Eurasip Journal on Advances in Signal Processing</i> , 2006 , 2006, 1	1.9	2
11	MC-CDMA with SIC: Power Control by Discrete Stochastic Approximation and Comparison with OFDMA 2006 ,		2
10	Throughput efficient block-spreading CDMA: sequence design and performance comparison 2005 ,		2
9	. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 2329-2339	9.6	13
8	Iterative interference cancellation and channel estimation for mobile OFDM. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 238-245	9.6	111
7	Iterative design and detection of a DFE in the frequency domain. <i>IEEE Transactions on Communications</i> , 2005 , 53, 1867-1875	6.9	143
6	On the comparison between OFDM and single carrier modulation with a DFE using a frequency-domain feedforward filter. <i>IEEE Transactions on Communications</i> , 2002 , 50, 947-955	6.9	184
5	Equalization methods in OFDM and FMT systems for broadband wireless communications. <i>IEEE Transactions on Communications</i> , 2002 , 50, 1413-1418	6.9	39
4	Block iterative DFE for single carrier modulation. <i>Electronics Letters</i> , 2002 , 38, 1144	1.1	136
3	Reduced complexity Doppler compensation for mobile DVB-T		3
2	Low Power Selective Denial of Service Attacks Against GNSS		3
1	GNSS Spoofing Detection Techniques by Cellular Network Cross-check in Smartphones		2