

Daniela Tuninetti

List of Publications by Year in descending order

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146
papers

1,688
citations

516561

16
h-index

477173

29
g-index

146
all docs

146
docs citations

146
times ranked

1071
citing authors

#	ARTICLE	IF	CITATIONS
1	Coverage in mmWave Cellular Networks With Base Station Co-Operation. IEEE Transactions on Wireless Communications, 2016, 15, 2981-2994.	6.1	95
2	Pathological tremor prediction using surface electromyogram and acceleration: potential use in "ON"OFF™ demand driven deep brain stimulator design. Journal of Neural Engineering, 2013, 10, 036019.	1.8	87
3	An Index Coding Approach to Caching With Uncoded Cache Placement. IEEE Transactions on Information Theory, 2020, 66, 1318-1332.	1.5	68
4	On caching with more users than files. , 2016, , .		66
5	Inner and Outer Bounds for the Gaussian Cognitive Interference Channel and New Capacity Results. IEEE Transactions on Information Theory, 2012, 58, 820-848.	1.5	63
6	Adaptively controlling deep brain stimulation in essential tremor patient via surface electromyography. Neurological Research, 2010, 32, 899-904.	0.6	59
7	New Inner and Outer Bounds for the Memoryless Cognitive Interference Channel and Some New Capacity Results. IEEE Transactions on Information Theory, 2011, 57, 4087-4109.	1.5	57
8	Communications System Performance and Design in the Presence of Radar Interference. IEEE Transactions on Communications, 2018, 66, 4170-4185.	4.9	51
9	On the optimality of uncoded cache placement. , 2016, , .		48
10	On the Benefits of Partial Channel State Information for Repetition Protocols in Block Fading Channels. IEEE Transactions on Information Theory, 2011, 57, 5036-5053.	1.5	44
11	On Interference Channel with Generalized Feedback (IFC-GF). , 2007, , .		41
12	Interference Channel With Generalized Feedback (a.k.a. With Source Cooperation): Part I: Achievable Region. IEEE Transactions on Information Theory, 2011, 57, 2686-2710.	1.5	39
13	On the capacity of the AWGN MIMO channel under per-antenna power constraints. , 2014, , .		35
14	An outer bound region for Interference Channels with Generalized Feedback. , 2010, , .		32
15	Interference as Noise: Friend or Foe?. IEEE Transactions on Information Theory, 2016, 62, 3561-3596.	1.5	32
16	Outer bounds for the interference channel with a cognitive relay. , 2010, , .		28
17	Gaussian Half-Duplex Relay Networks: Improved Constant Gap and Connections With the Assignment Problem. IEEE Transactions on Information Theory, 2014, 60, 3559-3575.	1.5	25
18	On Capacity of Line Networks. IEEE Transactions on Information Theory, 2007, 53, 4039-4058.	1.5	24

#	ARTICLE	IF	CITATIONS
19	Gaussian fading interference channels: Power control. , 2008, , .		24
20	Caching in Combination Networks: Novel Multicast Message Generation and Delivery by Leveraging the Network Topology. , 2018, , .		22
21	Let's share CommRad: Effect of radar interference on an uncoded data communication system. , 2016, , .		21
22	On the Capacity of the Interference Channel With a Cognitive Relay. IEEE Transactions on Information Theory, 2014, 60, 2148-2179.	1.5	20
23	Fundamental Limits of Caching for Demand Privacy Against Colluding Users. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 192-207.	1.9	20
24	New results on the capacity of the Gaussian cognitive interference channel. , 2010, , .		19
25	A neural network-based design of an on-off adaptive control for Deep Brain Stimulation in movement disorders. , 2012, 2012, 4140-3.		19
26	Outage Analysis of Block-Fading Gaussian Interference Channels. IEEE Transactions on Information Theory, 2011, 57, 6487-6501.	1.5	18
27	Towards fully automated closed-loop Deep Brain Stimulation in Parkinson's disease patients: A LAMSTAR-based tremor predictor. , 2015, 2015, 2616-9.		18
28	Transmitter channel state information and repetition protocols in block fading channels. , 2007, , .		17
29	K-user interference channels: General outer bound and sum-capacity for certain Gaussian channels. , 2011, , .		17
30	Fundamental Limits of Decentralized Data Shuffling. IEEE Transactions on Information Theory, 2020, 66, 3616-3637.	1.5	17
31	On the Optimality of Simple Schedules for Networks With Multiple Half-Duplex Relays. IEEE Transactions on Information Theory, 2016, 62, 4120-4134.	1.5	15
32	Efficiently finding simple schedules in Gaussian half-duplex relay line networks. , 2017, , .		15
33	On the Capacity of the AWGN Channel With Additive Radar Interference. IEEE Transactions on Communications, 2018, 66, 629-643.	4.9	15
34	The capacity of the interference channel with a cognitive relay in strong interference. , 2011, , .		14
35	On the Gaussian Half-Duplex Relay Channel. IEEE Transactions on Information Theory, 2014, 60, 2542-2562.	1.5	14
36	Novel delivery schemes for decentralized coded caching in the finite file size regime. , 2017, , .		14

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37	A new achievable region for interference channel with generalized feedback. , 2008, , .		13
38	On the Optimal Load-Memory Tradeoff of Cache-Aided Scalar Linear Function Retrieval. IEEE Transactions on Information Theory, 2021, 67, 4001-4018.	1.5	13
39	An outer bound for the memoryless two-user interference channel with general cooperation. , 2012, , .		12
40	On the Two-User Interference Channel With Lack of Knowledge of the Interference Codebook at One Receiver. IEEE Transactions on Information Theory, 2015, 61, 1257-1276.	1.5	12
41	Multi-user Cognitive Interference Channels: A Survey and New Capacity Results. IEEE Transactions on Cognitive Communications and Networking, 2015, 1, 29-44.	4.9	12
42	Interference channels with source cooperation in the strong cooperation regime: Symmetric capacity to within 2 bits/s/Hz with Dirty Paper Coding. , 2011, , .		11
43	Approximate Sum-Capacity of K-user Cognitive Interference Channels with Cumulative Message Sharing. IEEE Journal on Selected Areas in Communications, 2014, 32, 654-666.	9.7	11
44	On the Capacity Region of the Two-User Interference Channel With a Cognitive Relay. IEEE Transactions on Wireless Communications, 2014, 13, 6824-6838.	6.1	10
45	On discrete alphabets for the two-user Gaussian interference channel with one receiver lacking knowledge of the interfering codebook. , 2014, , .		10
46	On the Error Rate of a Communication System Suffering from Additive Radar Interference. , 2016, , .		10
47	Modeling the interference of pulsed radar signals in OFDM-based communications systems. , 2017, , .		10
48	Fundamental Limits of Distributed Data Shuffling. , 2018, , .		10
49	Private Pliable Index Coding. , 2019, , .		10
50	The Capacity of the Semi-Deterministic Cognitive Interference Channel and Its Application to Constant Gap Results for the Gaussian Channel. , 2011, , .		9
51	Towards closed-loop deep brain stimulation: Decision tree-based Essential Tremor patient's state classifier and tremor reappearance predictor. , 2014, 2014, 2605-8.		9
52	The capacity of the ergodic MISO channel with per-antenna power constraint and an application to the fading cognitive interference channel. , 2014, , .		9
53	On the Benefits of Asymmetric Coded Cache Placement in Combination Networks with End-User Caches. , 2018, , .		9
54	Scheduling on the Gaussian Broadcast Channel with Hard Deadlines. , 2018, , .		9

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55	Tight Information Theoretic Converse Results for Some Pliable Index Coding Problems. IEEE Transactions on Information Theory, 2020, 66, 2642-2657.	1.5	9
56	The capacity region of the Gaussian cognitive radio channels at high SNR. , 2009, , .		8
57	On Communication Through a Gaussian Channel With an MMSE Disturbance Constraint. IEEE Transactions on Information Theory, 2018, 64, 513-530.	1.5	8
58	A new sum-rate outer bound for interference channels with three source-destination pairs. , 2011, , .		7
59	A new capacity result for the Z-Gaussian cognitive interference channel. , 2011, , .		7
60	On the Capacity of the Two-User Gaussian Causal Cognitive Interference Channel. IEEE Transactions on Information Theory, 2014, 60, 2512-2541.	1.5	7
61	On Gaussian interference channels with mixed gaussian and discrete inputs. , 2014, , .		7
62	The Sum-Capacity of the Ergodic Fading Gaussian Cognitive Interference Channel. IEEE Transactions on Wireless Communications, 2015, 14, 809-820.	6.1	7
63	On the capacity of strong asynchronous multiple access channels with a large number of users. , 2016, , .		7
64	A new sum-rate outer bound for Gaussian Interference Channels with Generalized Feedback. , 2009, , .		6
65	On the capacity of the symmetric interference channel with a cognitive relay at high SNR. , 2012, , .		6
66	The approximate optimality of simple schedules for half-duplex multi-relay networks. , 2015, , .		6
67	On the minimum mean p-th error in Gaussian noise channels and its applications. , 2016, , .		6
68	Pliable Index COding: Novel lower bound on the fraction of satisfied clients with a single transmission and its application. , 2016, , .		6
69	A novel index coding scheme and its application to coded caching. , 2017, , .		6
70	Who May Benefit From Onâ€ Demand Control of Deep Brain Stimulation? Noninvasive Evaluation of Parkinson Patients. Neuromodulation, 2018, 21, 611-616.	0.4	6
71	Network Simplification in Half-Duplex: Building on Submodularity. IEEE Transactions on Information Theory, 2019, 65, 6801-6818.	1.5	6
72	On Coded Caching with Correlated Files. , 2019, , .		6

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73	Stochastic modeling of the neuronal activity in the subthalamic nucleus and model parameter identification from Parkinson patient data. <i>Biological Cybernetics</i> , 2010, 103, 273-283.	0.6	5
74	The capacity region of Gaussian cognitive radio channels to within 1.81 bits. , 2010, , .		5
75	Multiple description coding over multiple correlated erasure channels. <i>Transactions on Emerging Telecommunications Technologies</i> , 2012, 23, 522-536.	2.6	5
76	Gaussian half-duplex relay channels: Generalized degrees of freedom and constant gap result. , 2013, , .		5
77	New outer bounds for the interference channel with unilateral source cooperation. , 2014, , .		5
78	On the capacity of the AWGN channel with additive radar interference. , 2016, , .		5
79	On the DoF Region of the MIMO Gaussian Two-User Interference Channel With an Instantaneous Relay. <i>IEEE Transactions on Information Theory</i> , 2017, 63, 4453-4471.	1.5	5
80	State-of-the-art in cache-aided combination networks. , 2017, , .		5
81	On the Minimum Mean p th Error in Gaussian Noise Channels and Its Applications. <i>IEEE Transactions on Information Theory</i> , 2018, 64, 2012-2037.	1.5	5
82	On the Fundamental Limits of Fog-RAN Cache-Aided Networks With Downlink and Sidelink Communications. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 2353-2378.	1.5	5
83	Achieving Net Feedback Gain in the Linear-Deterministic Butterfly Network with a Full-Duplex Relay. <i>Lecture Notes in Computer Science</i> , 2013, , 167-208.	1.0	5
84	Cache-Aided Matrix Multiplication Retrieval. <i>IEEE Transactions on Information Theory</i> , 2022, 68, 4301-4319.	1.5	5
85	Outage analysis of block-fading Gaussian interference channels. , 2009, , .		4
86	Gaussian half-duplex relay networks: Improved gap and a connection with the assignment problem. , 2013, , .		4
87	The capacity to within a constant gap of the Gaussian half-duplex relay channel. , 2013, , .		4
88	A Practical Feasibility Study of a Novel Strategy for the Gaussian Half-Duplex Relay Channel. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 101-116.	6.1	4
89	Novel inner bounds with uncoded cache placement for combination networks with end-user-caches. , 2017, , .		4
90	Information theoretic converse proofs for some PICOD problems. , 2017, , .		4

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91	A Novel Asymmetric Coded Placement in Combination Networks with End-User Caches. , 2018, , .		4
92	An Information Theoretic Converse for the “Consecutive Complete” PICOD Problem. , 2018, , .		4
93	The sum-capacity of the linear deterministic three-user cognitive interference channel. , 2012, , .		3
94	On the interference channel with causal cognition. , 2013, , .		3
95	The symmetric sum-capacity of the Gaussian half-duplex causal cognitive interference channel to within a constant gap. , 2013, , .		3
96	The DoF of the asymmetric MIMO interference channel with square direct link channel matrices. , 2014, , .		3
97	On the capacity of full-duplex causal cognitive interference channels to within a constant gap. , 2014, , .		3
98	i.i.d. mixed inputs and treating interference as noise are gDoF optimal for the symmetric Gaussian two-user interference channel. , 2015, , .		3
99	The Two-User Causal Cognitive Interference Channel: Novel Outer Bounds and Constant Gap Result for the Symmetric Gaussian Noise Channel in Weak Interference. IEEE Transactions on Information Theory, 2016, 62, 4993-5017.	1.5	3
100	Novel outer bounds for combination networks with end-user-caches. , 2017, , .		3
101	On the Capacity Region of the Layered Packet Erasure Broadcast Channel with Feedback. , 2019, , .		3
102	On Code Design for Wireless Channels with Additive Radar Interference. , 2019, , .		3
103	Cache-Aided General Linear Function Retrieval. Entropy, 2021, 23, 25.	1.1	3
104	Key Superposition Simultaneously Achieves Security and Privacy in Cache-Aided Linear Function Retrieval. IEEE Transactions on Information Forensics and Security, 2021, 16, 5250-5263.	4.5	3
105	Distortion exponent for multiple description coding. , 2009, , .		2
106	The sum-capacity of different K-user cognitive interference channels in strong interference. , 2013, , .		2
107	On the Gaussian Interference Channel with Half-Duplex Causal Cognition. IEEE Journal on Selected Areas in Communications, 2014, 32, 2177-2189.	9.7	2
108	On Achievable Distortion Exponents for a Gaussian Source Transmitted Over Parallel Gaussian Channels With Correlated Fading and Asymmetric SNRs. IEEE Transactions on Information Theory, 2016, 62, 4135-4153.	1.5	2

#	ARTICLE	IF	CITATIONS
109	On The Stability Region of the Layered Packet Erasure Broadcast Channel with Output Feedback. , 2019, , .		2
110	Cache-Aided Scalar Linear Function Retrieval. , 2020, , .		2
111	Combination Networks With End-User-Caches: Novel Achievable and Converse Bounds Under Uncoded Cache Placement. IEEE Transactions on Information Theory, 2022, 68, 806-827.	1.5	2
112	On the Fundamental Limits of Device-to-Device Private Caching Under Uncoded Cache Placement and User Collusion. IEEE Transactions on Information Theory, 2022, 68, 5701-5729.	1.5	2
113	A General Coded Caching Scheme for Scalar Linear Function Retrieval. IEEE Journal on Selected Areas in Information Theory, 2022, 3, 321-336.	1.9	2
114	Stochastic modeling of the neuronal activity in the thalamus of Essential Tremor patient. , 2010, 2010, 1461-4.		1
115	On the distortion exponent of block-fading Gaussian interference channels. , 2010, , .		1
116	Message error analysis of loopy belief propagation. , 2010, , .		1
117	Approximate sum-capacity of full- and half-duplex asymmetric interference channels with unilateral source cooperation. , 2013, , .		1
118	On modeling the neuronal activity in movement disorder patients by using the Ornstein Uhlenbeck Process. , 2014, 2014, 2609-12.		1
119	On the Gaussian interference channel with unilateral generalized feedback. , 2014, , .		1
120	On user scheduling for maximum throughput in K-user MISO broadcast channels. , 2015, , .		1
121	Gaussian MIMO half-duplex relay networks: Approximate optimality of simple schedules. , 2015, , .		1
122	On the applications of the minimum mean p-th error (MMPE) to information theoretic quantities. , 2016, , .		1
123	On network simplification for Gaussian Half-Duplex diamond networks. , 2016, , .		1
124	On communications through a Gaussian noise channel with an MMSE disturbance constraint. , 2016, , .		1
125	Characterization of the effect of radar Interference on an uncoded data communication system. , 2016, , .		1
126	On the capacity of the slotted strongly asynchronous channel with a bursty user. , 2017, , .		1

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127	Half-duplex routing is NP-hard. , 2017, , .		1
128	Key Superposition Simultaneously Achieves Security and Privacy in Cache-Aided Linear Function Retrieval. , 2021, , .		1
129	A General Coded Caching Scheme for Scalar Linear Function Retrieval. , 2021, , .		1
130	Robust and Secure Cache-aided Private Linear Function Retrieval from Coded Servers. , 2021, , .		1
131	On cognitive channels with an oblivion constraint. , 2011, , .		1
132	Robust, Private and Secure Cache-Aided Scalar Linear Function Retrieval From Coded Servers. IEEE Journal on Selected Areas in Communications, 2022, 40, 968-981.	9.7	1
133	Repetition protocols and channel state information in block-fading channels. , 2008, , .		0
134	Multiple description coding over correlated multipath erasure channels. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
135	Cognitive channels with oblivion constraints. , 2011, , .		0
136	The sum-capacity of the symmetric linear deterministic Complete K-user Z-Interference Channel. , 2012, , .		0
137	On the K-user cognitive interference channel with cumulative message sharing sum-capacity. , 2013, , .		0
138	The capacity of the Gaussian cooperative two-user multiple access channel to within a constant gap. , 2013, , .		0
139	On the sum-capacity of the cognitive interference channel with cognitive-only message sharing. , 2015, , .		0
140	On the DoF of two-user interference channel with an instantaneous relay. , 2015, , .		0
141	Nearly optimal non-Gaussian codes for the Gaussian interference channel. , 2015, , .		0
142	The Gaussian Interference Channel with lack of codebook knowledge at one receiver: Symmetric capacity to within a gap with a PAM input. , 2015, , .		0
143	On inputs achieving the cardinality-constrained capacity on the real Gaussian noise channel. , 2018, , .		0
144	The Approximate Capacity of Half-Duplex Line Networks. IEEE Transactions on Information Theory, 2020, 66, 4449-4467.	1.5	0

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145	Optimal Linear Coding Schemes for the Secure Decentralized Pliable Index Coding Problem. , 2021, , .		0
146	Cache-Aided Matrix Multiplication Retrieval. , 2021, , .		0