

# Mohammed H Nafie

## List of Publications by Year in descending order

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71  
papers

465  
citations

1307543

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h-index

888047

17  
g-index

71  
all docs

71  
docs citations

71  
times ranked

468  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cache-Aided Combination Networks With Interference. IEEE Transactions on Wireless Communications, 2020, 19, 148-161.	9.2	4
2	Fundamental Limits of Memory-Latency Tradeoff in Fog Radio Access Networks Under Arbitrary Demands. IEEE Transactions on Wireless Communications, 2019, 18, 3871-3886.	9.2	4
3	Social-Aware Content Delivery in Low Latency D2D Caching Networks. , 2019, , .		1
4	Enhanced Proactive Caching Through Content Recommendation. , 2019, , .		0
5	On the Capacity Region of the Deterministic Y-Channel with Common and Private Messages. , 2019, , .		0
6	Coded Caching and Spatial Multiplexing Gains in MIMO Interference Networks. , 2019, , .		1
7	Cache-Aware Source Coding. IEEE Communications Letters, 2018, 22, 1144-1147.	4.1	0
8	Content Delivery in Mobility-Aware D2D Caching Networks. , 2018, , .		7
9	A Converse Bound for Cache-Aided Interference Networks. , 2018, , .		4
10	On Optimal Dynamic Caching in Relay Networks. , 2018, , .		1
11	SWIPT Using Hybrid ARQ Over Time Varying Channels. IEEE Transactions on Green Communications and Networking, 2018, 2, 1087-1100.	5.5	5
12	Cache-aided fog radio access networks with partial connectivity. , 2018, , .		10
13	Degrees of Freedom for the MIMO Multi-Way Relay Channel With Common and Private Messages. IEEE Transactions on Wireless Communications, 2017, 16, 1673-1686.	9.2	6
14	Degrees of Freedom of the Full-Duplex Asymmetric MIMO 3-Way Channel with Unicast and Broadcast Messages. IEEE Transactions on Communications, 2017, , 1-1.	7.8	3
15	Decentralized coded caching in wireless networks: Trade-off between storage and latency. , 2017, , .		22
16	Weighted Sum Degrees of Freedom of the Asymmetric MIMO Y Channel with Common and Private Messages. , 2017, , .		1
17	RF Energy Harvesting in Wireless Networks with HARQ. , 2016, , .		3
18	Optimal Energy Allocation for Delay-Constrained Traffic over Fading Multiple Access Channels. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	A Hybrid TDMA-MAC Cooperative Relaying Scheme: Stability and Delay Analysis. , 2016, , .		1
20	Proactive Location-Based Scheduling of Delay-Constrained Traffic over Fading Channels. , 2016, , .		2
21	Using network coding to achieve the capacity of deterministic relay networks with relay messages. Wireless Communications and Mobile Computing, 2016, 16, 2390-2405.	1.2	0
22	On the degrees of freedom region of the $M \times N$ Interference Channel. , 2016, , .		0
23	Achievable Degrees of Freedom of the K-User MISO Broadcast Channel with Alternating CSIT via Interference Creation-Resurrection. , 2016, , .		1
24	Maximum Secondary Stable Throughput of a Cooperative Secondary Transmitter-Receiver Pair: Protocol Design and Stability Analysis. IEEE Transactions on Vehicular Technology, 2016, 65, 4937-4951.	6.3	0
25	Effective area spectral efficiency for wireless communication networks with interference management. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	4
26	Achievable degrees of freedom on K-user MIMO multi-way relay channel with common and private messages. , 2015, , .		4
27	On the Degrees of Freedom of the Two-Cell Two-Hop MIMO Network With Dedicated and Shared Relays. IEEE Transactions on Wireless Communications, 2015, 14, 6738-6751.	9.2	5
28	A probabilistic MAC for cognitive radio systems with energy harvesting nodes. , 2014, , .		2
29	Achievable degrees of freedom region of MIMO relay networks using Detour Schemes. , 2014, , .		7
30	A dynamic relaying scheme for cognitive networks with multipacket reception capability. , 2014, , .		0
31	On the achievable rates of a secondary link coexisting with a primary multiple access network. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	2.4	0
32	Degrees of freedom for a two-cell relay network with soft handoffs. , 2014, , .		1
33	A pricing-based cooperative spectrum sharing stackelberg game. , 2014, , .		3
34	Adaptive Bit Loading and Puncturing Using Long Single Codewords in OFDM Systems. Wireless Personal Communications, 2013, 71, 1557-1576.	2.7	2
35	Joint power and rate scheduling for cognitive multi-access networks with imperfect sensing. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	1
36	The deterministic capacity of relay networks with relay private messages. , 2013, , .		4

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37	Maximizing the signal to leakage ratio in downlink cellular networks. , 2013, , .		1
38	Cognitive radio transmission strategies for primary erasure channels. , 2013, , .		3
39	Cross-Layer Minimum-Delay Scheduling and Maximum-Throughput Resource Allocation for Multiuser Cognitive Networks. IEEE Transactions on Mobile Computing, 2013, 12, 761-773.	5.8	25
40	Alternate relaying and the degrees of freedom of one-way cellular relay networks. , 2013, , .		2
41	The deterministic multicast capacity of 4-node relay networks. , 2013, , .		11
42	A new achievable DoF region for the 3-user M &#x00D7; N symmetric interference channel. , 2012, , .		4
43	Degrees of freedom for separated and non-separated half-duplex cellular MIMO two-way relay channels. , 2012, , .		2
44	Transmission power adaptation for cognitive radios. , 2012, , .		0
45	Resource allocation for throughput enhancement in cellular shared relay networks. , 2012, , .		2
46	Distributed Spectrum Sensing With Sequential Ordered Transmissions to a Cognitive Fusion Center. IEEE Transactions on Signal Processing, 2012, 60, 2524-2538.	5.3	44
47	Buffer-aware power control for cognitive radio networks. , 2012, , .		1
48	A minimum-delay cross-layer transmission policy for cognitive multi-access networks with imperfect sensing. , 2012, , .		2
49	On the diversity gain region of the Z-interference channels. , 2012, , .		14
50	Optimized spectrum sensing algorithms for cognitive LTE femtocells. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	12
51	Adaptive sensing and transmission durations for cognitive radios. , 2011, , .		8
52	Cooperative sensing with sequential ordered transmissions to secondary fusion center. , 2011, , .		6
53	On the utility of primary side information in cognitive sensing. , 2011, , .		0
54	Admission and Power Control for Spectrum Sharing Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2011, 10, 1945-1955.	9.2	44

#	ARTICLE	IF	CITATIONS
55	Constrained Interference Alignment and the Spatial Degrees of Freedom of MIMO Cognitive Networks. IEEE Transactions on Information Theory, 2011, 57, 2994-3004.	2.4	96
56	Proactive resource allocation in cognitive networks. , 2011, , .		8
57	Joint power allocation and beamforming for multiuser MIMO two-way relay networks. , 2011, , .		3
58	Achievable degrees of freedom of the K-user interference channel with partial cooperation. , 2011, , .		1
59	Power Control for Constrained Throughput Maximization in Spectrum Shared Networks. , 2010, , .		12
60	Symbol Based Log-MAP in Concatenated LDPC-Convolutional Codes. , 2010, , .		3
61	An achievable rate region for a primary network shared by a secondary link. , 2010, , .		0
62	Opportunistic interference alignment for multiuser cognitive radio. , 2010, , .		13
63	Throughput maximization over temporally correlated fading channels in cognitive radio networks. , 2010, , .		3
64	A novel scheme for relay cooperation in interweave cognitive radio systems. , 2010, , .		2
65	Novel Reliability-Based Hybrid ARQ Technique. , 2009, , .		1
66	Adaptive Puncturing and Rate Selection in Single-Codeword Turbo-Coded OFDMA. , 2009, , .		1
67	Distributed Power and Admission Control for Cognitive Radios in Spectrum Underlay Networks. , 2009, , .		5
68	Cross-Layer Adaptive Resource Allocation Algorithm For Wireless Communications Networks. , 2008, , .		1
69	Deterministic and iterative solutions to subset selection problems. IEEE Transactions on Signal Processing, 2002, 50, 1591-1601.	5.3	12
70	A flexible receiver for CDMA multiuser communications. IEEE Transactions on Signal Processing, 2002, 50, 1747-1758.	5.3	2
71	Implementation of recovery of speech with missing samples on a DSP chip. Electronics Letters, 1994, 30, 12-13.	1.0	12