

Alex Grant

List of Publications by Year in descending order

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77
papers

1,029
citations

759233

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26
g-index

78
all docs

78
docs citations

78
times ranked

813
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking Unstable Autoregressive Sources Over Discrete Memoryless Channels. IEEE Transactions on Information Theory, 2019, 65, 8140-8163.	2.4	0
2	Small Data, Low Cost, Anywhere on Earth. IEEE Potentials, 2019, 38, 18-20.	0.3	1
3	Minimal Characterization of Shannon-Type Inequalities Under Functional Dependence and Full Conditional Independence Structures. IEEE Transactions on Information Theory, 2019, 65, 4041-4051.	2.4	4
4	Quasi-Spatially Periodic Signals for Optical Fibre Communications. Scientific Reports, 2018, 8, 15596.	3.3	1
5	Massive scale, long battery life, direct to orbit connectivity for the internet of things. Acta Astronautica, 2018, 151, 318-323.	3.2	4
6	A Minimal Set of Shannon-type Inequalities for MRF Structures with Functional Dependencies. , 2018, , .		2
7	Capacity Bounds for Networks With Correlated Sources and Characterisation of Distributions by Entropies. IEEE Transactions on Information Theory, 2017, 63, 3540-3553.	2.4	6
8	A minimal set of shannon-type inequalities for functional dependence structures. , 2017, , .		7
9	Cut-Set Bounds on Network Information Flow. IEEE Transactions on Information Theory, 2016, 62, 1850-1865.	2.4	12
10	Linear and Non-Linear Run Length Limited Codes. IEEE Communications Letters, 2015, 19, 1085-1088.	4.1	2
11	PAM-SCFDE for Optical Wireless Communications. Journal of Lightwave Technology, 2015, , 1-1.	4.6	31
12	The Real-World Safety Potential of Connected Vehicle Technology. Traffic Injury Prevention, 2015, 16, S31-S35.	1.4	32
13	Harvesting Sensor Data from Low Earth Orbit. , 2015, , .		0
14	A Microsatellite-Based Global Sensor Network. , 2014, , .		0
15	Finding a Closest Point in a Lattice of Voronoi's First Kind. SIAM Journal on Discrete Mathematics, 2014, 28, 1405-1422.	0.8	10
16	Spatially periodic signals for fiber channels. , 2014, , .		9
17	Bounds for constrained entropy maximisation. , 2014, , .		0
18	Design of Irregular Repeat Accumulate Codes for Finite Decoder Iterations. IEEE Transactions on Communications, 2014, 62, 3092-3103.	7.8	1

#	ARTICLE	IF	CITATIONS
19	Network Coding Capacity Regions via Entropy Functions. IEEE Transactions on Information Theory, 2014, 60, 5347-5374.	2.4	24
20	Decoder-aided synchronization for multiuser CDMA systems. , 2013, , .		1
21	Characterising correlation via entropy functions. , 2013, , .		4
22	Quasi-Uniform Codes and Their Applications. IEEE Transactions on Information Theory, 2013, 59, 7915-7926.	2.4	9
23	Lossy Broadcasting With Complementary Side Information. IEEE Transactions on Information Theory, 2013, 59, 104-131.	2.4	19
24	Source coding with side information for error free perfect secrecy systems. , 2013, , .		0
25	Single carrier frequency domain equalization based on on-off-keying for optical wireless communications. , 2013, , .		17
26	Finding short vectors in a lattice of Voronoi's first kind. , 2012, , .		1
27	Non-entropic inequalities from information constraints. , 2012, , .		4
28	Cross-layer energy minimization in correlated data gathering wireless sensor networks. , 2012, , .		5
29	Distributed energy consumption minimization for lossless data gathering wireless sensor networks. , 2012, , .		2
30	Code-acquisition via the projection method for CDMA systems in high MAI channels. , 2012, , .		0
31	Compact representation of polymatroid axioms for random variables with conditional independencies. , 2012, , .		0
32	Position Modulating OFDM for optical wireless communications. , 2012, , .		17
33	Irregular repeat accumulate codes with few iterations for the binary adder channel. , 2012, , .		3
34	Capacity Analysis of Correlated MIMO Channels. IEEE Transactions on Information Theory, 2012, 58, 6773-6787.	2.4	55
35	4G and beyond in Australia: Technologies and opportunities in the NBN era. Telecommunications Journal of Australia, 2012, 62, .	0.2	2
36	On Complexity Reduction of the LP Bound Computation and Related Problems. , 2011, , .		11

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37	On the separation of encryption and compression in secure distributed source coding. , 2011, , .		3
38	Joint estimation of multipath parameters from OFDM signals in mobile channels. , 2011, , .		8
39	Multi-user decoder assisted code-acquisition in CDMA systems. , 2011, , .		3
40	Bounds for network information flow with correlated sources. , 2011, , .		6
41	Rate-distortion functions for source coding with complementary side information. , 2011, , .		10
42	Cooperative Intelligent Transport Systems: 5.9-GHz Field Trials. Proceedings of the IEEE, 2011, 99, 1213-1235.	21.3	164
43	The Minimal Set of Ingleton Inequalities. IEEE Transactions on Information Theory, 2011, 57, 1849-1864.	2.4	10
44	Rate Distortion With Side-Information at Many Decoders. IEEE Transactions on Information Theory, 2011, 57, 5240-5257.	2.4	37
45	Truncation Technique for Characterizing Linear Polymatroids. IEEE Transactions on Information Theory, 2011, 57, 6364-6378.	2.4	12
46	Minimizing Energy Consumption for Lossless Data Gathering Wireless Sensor Networks. , 2011, , .		1
47	On capacity regions of non-multicast networks. , 2010, , .		27
48	Existence of new inequalities for representable polymatroids. , 2010, , .		2
49	The arbitrarily varying channel when the jammer knows the channel input. , 2010, , .		4
50	Rate distortion with Side-Information at many receivers. , 2010, , .		2
51	Properties of quasi-uniform codes. , 2010, , .		7
52	The confidence interval of entropy estimation through a noisy channel. , 2010, , .		3
53	Robust key agreement schemes. , 2009, , .		0
54	Reversible Low-Density Parity-Check Codes. IEEE Transactions on Information Theory, 2009, 55, 2016-2036.	2.4	5

#	ARTICLE	IF	CITATIONS
55	A dual-function mixed-signal circuit for LDPC encoding/decoding. The Integration VLSI Journal, 2009, 42, 332-339.	2.1	5
56	Bit error rate estimation for turbo decoding. IEEE Transactions on Communications, 2009, 57, 585-590.	7.8	13
57	Downlink scheduling using compressed sensing. , 2009, , .		21
58	Decoding network codes by message passing. , 2009, , .		2
59	Network coding capacity: A functional dependence bound. , 2009, , .		27
60	Dualities Between Entropy Functions and Network Codes. IEEE Transactions on Information Theory, 2008, 54, 4470-4487.	2.4	64
61	Shaping EXIT functions of turbo codes. , 2008, , .		4
62	Capacity bounds for secure network coding. , 2008, , .		28
63	Basic Entropy Sets. , 2008, , .		2
64	Dualities between Entropy Functions and Network Codes. , 2008, , .		9
65	Mission impossible: Computing the network coding capacity region. , 2008, , .		20
66	Non-linear Information Inequalities. Entropy, 2008, 10, 765-775.	2.2	10
67	The minimal set of Ingleton inequalities. , 2008, , .		6
68	Information Indivisibility Results. , 2008, , .		0
69	On Random Network Coding for Multicast. , 2007, , .		3
70	Shannon Transform of Certain Matrix Products. , 2007, , .		5
71	Entropy Vectors and Network Codes. , 2007, , .		9
72	Outdoor Mobile Broadband Access with 802.11. , 2007, 45, 108-114.		38

#	ARTICLE	IF	CITATIONS
73	Capacity Approaching Codes for Non-Coherent Orthogonal Modulation. IEEE Transactions on Wireless Communications, 2007, 6, 4004-4013.	9.2	27
74	Co-channel interference reduction in Rayleigh fading channels. , 2006, 16, 619-627.		3
75	SPC10-5: Computationally Efficient List Sphere Detectors with Reduced Storage Requirements. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
76	Correction to "Rayleigh Fading Multi-Antenna Channels". Eurasip Journal on Advances in Signal Processing, 2003, 2003, 1.	1.7	0
77	Rayleigh Fading Multi-Antenna Channels. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.7	129