

Basel Alomair

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

727
citations

840119

11
h-index

610482

24
g-index

61
all docs

61
docs citations

61
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Structure and Computation of Random Walk Times in Finite Graphs. IEEE Transactions on Automatic Control, 2019, 64, 4470-4483.	3.6	2
2	Combinatorial Algorithms for Control of Biological Regulatory Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 748-759.	2.4	7
3	Adaptive Mitigation of Multi-Virus Propagation: A Passivity-Based Approach. IEEE Transactions on Control of Network Systems, 2018, 5, 583-596.	2.4	12
4	Secrecy Capacity Analysis Over α - μ Fading Channels. IEEE Communications Letters, 2017, 21, 1445-1448.	2.5	142
5	Secret Key Agreement: Fundamental Limits and Practical Challenges. IEEE Wireless Communications, 2017, 24, 72-79.	6.6	11
6	Input Selection for Performance and Controllability of Structured Linear Descriptor Systems. SIAM Journal on Control and Optimization, 2017, 55, 457-485.	1.1	13
7	Toward Synchronization in Networks With Nonlinear Dynamics: A Submodular Optimization Framework. IEEE Transactions on Automatic Control, 2017, 62, 5055-5068.	3.6	5
8	On Secure NOMA Systems With Transmit Antenna Selection Schemes. IEEE Access, 2017, 5, 17450-17464.	2.6	134
9	Authenticated encryption: how reordering can impact performance. Security and Communication Networks, 2016, 9, 6173-6188.	1.0	0
10	Distributed adaptive patching strategies against malware propagation: A passivity approach. , 2016, , .		2
11	Achievable Rates of Secure Transmission in Gaussian MISO Channel With Imperfect Main Channel Estimation. IEEE Transactions on Wireless Communications, 2016, 15, 4470-4485.	6.1	11
12	The MISO Wiretap Channel with Noisy Main Channel Estimation in the High Power Regime. , 2016, , .		1
13	The MISO wiretap channel with channel uncertainty: Asymptotic perspectives. , 2016, , .		1
14	Secret-Key Agreement With Public Discussion Subject to an Amplitude Constraint. IEEE Communications Letters, 2016, 20, 1124-1127.	2.5	4
15	Centralized Submodular Optimization. Communications and Control Engineering, 2016, , 19-39.	1.0	0
16	Selecting Catalyst Nodes for Synchronization. Communications and Control Engineering, 2016, , 105-127.	1.0	0
17	On the Ergodic Secret-Key Agreement Over Spatially Correlated Multiple-Antenna Channels With Public Discussion. IEEE Transactions on Signal Processing, 2016, 64, 495-510.	3.2	8
18	The Diversity-Multiplexing Tradeoff of Secret-Key Agreement Over Multiple Antenna Channels. IEEE Transactions on Wireless Communications, 2016, 15, 1562-1574.	6.1	4

#	ARTICLE	IF	CITATIONS
19	Submodularity in Dynamics and Control of Networked Systems. Communications and Control Engineering, 2016, , .	1.0	30
20	Background on Control of Networked Systems. Communications and Control Engineering, 2016, , 57-82.	1.0	0
21	Joint Performance and Controllability of Networked Systems. Communications and Control Engineering, 2016, , 175-198.	1.0	2
22	Resilience to Link Noise Injection Attacks. Communications and Control Engineering, 2016, , 157-174.	1.0	0
23	Input Selection for Robustness to Noise. Communications and Control Engineering, 2016, , 129-155.	1.0	0
24	Distributed Submodular Maximization. Communications and Control Engineering, 2016, , 41-53.	1.0	1
25	Submodular Optimization for Smooth Convergence. Communications and Control Engineering, 2016, , 83-104.	1.0	0
26	Secure Error-Tolerant Graph Matching Protocols. Lecture Notes in Computer Science, 2016, , 265-283.	1.0	0
27	Input selection for disturbance rejection in networked cyber-physical systems. , 2015, , .		2
28	A host takeover game model for competing malware. , 2015, , .		5
29	Secret-key agreement over spatially correlated fast-fading multiple-antenna channels with public discussion. , 2015, , .		2
30	Secret-key agreement over spatially correlated multiple-antenna channels in the low-SNR regime. , 2015, , .		0
31	Achievable Rates of Secure Transmission in Gaussian MISO Channel with Imperfect Main Channel Estimation. , 2015, , .		2
32	Jamming-based adversarial control of network flow allocation: A passivity approach. , 2015, , .		1
33	Scalable and distributed submodular maximization with matroid constraints. , 2015, , .		7
34	On the secrecy capacity of the MISO wiretap channel under imperfect channel estimation. , 2014, , .		12
35	Graph-based verification and misbehavior detection in multi-agent networks. , 2014, , .		1
36	On the diversity-multiplexing tradeoff of secret-key agreement over multiple-antenna channels. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
37	Distributed online submodular maximization in resource-constrained networks. , 2014, , .		4
38	Efficient Authentication for Mobile and Pervasive Computing. IEEE Transactions on Mobile Computing, 2014, 13, 469-481.	3.9	24
39	Minimizing Convergence Error in Multi-Agent Systems Via Leader Selection: A Supermodular Optimization Approach. IEEE Transactions on Automatic Control, 2014, 59, 1480-1494.	3.6	65
40	E-MACs: Toward More Secure and More Efficient Constructions of Secure Channels. IEEE Transactions on Computers, 2014, 63, 204-217.	2.4	2
41	Universal Hash-Function Families: From Hashing to Authentication. Lecture Notes in Computer Science, 2014, , 459-474.	1.0	1
42	Optimized relay-route assignment for anonymity in wireless networks. , 2013, , .		0
43	Multipath flow allocation in anonymous wireless networks with dependent sources. , 2012, , .		1
44	Leader selection in multi-agent systems for smooth convergence via fast mixing. , 2012, , .		16
45	Optimized flow allocation for anonymous communication in multipath wireless networks. , 2012, , .		2
46	Scalable RFID Systems: A Privacy-Preserving Protocol with Constant-Time Identification. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1536-1550.	4.0	32
47	Authenticated Encryption: How Reordering Can Impact Performance. Lecture Notes in Computer Science, 2012, , 84-99.	1.0	5
48	Securing low-cost RFID systems: An unconditionally secure approach. Journal of Computer Security, 2011, 19, 229-257.	0.5	17
49	E -MACs: Towards More Secure and More Efficient Constructions of Secure Channels. Lecture Notes in Computer Science, 2011, , 292-310.	1.0	1
50	Privacy versus scalability in radio frequency identification systems. Computer Communications, 2010, 33, 2155-2163.	3.1	31
51	The power of primes: security of authentication based on a universal hash-function family. Journal of Mathematical Cryptology, 2010, 4, .	0.4	11
52	Statistical Framework for Source Anonymity in Sensor Networks. , 2010, , .		18
53	Efficient Authentication for Mobile and Pervasive Computing. Lecture Notes in Computer Science, 2010, , 186-202.	1.0	9
54	Scalable RFID systems: a privacy-preserving protocol with constant-time identification. , 2010, , .		22

#	ARTICLE	IF	CITATIONS
55	Towards Trustworthy Cryptographic Protection of Airplane Information Assets. , 2009, , .		2
56	On the Authentication of RFID Systems with Bitwise Operations. , 2008, , .		6
57	Efficient Generic Forward-Secure Signatures and Proxy Signatures. , 2008, , 166-181.		11
58	Passive Attacks on a Class of Authentication Protocols for RFID. , 2007, , 102-115.		20