

Dennis L Goeckel

List of Publications by Year in descending order

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94
papers

3,394
citations

257450

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233421

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94
all docs

94
docs citations

94
times ranked

1769
citing authors

#	ARTICLE	IF	CITATIONS
1	Covert Communications in Multi-Channel Slotted ALOHA Systems. IEEE Transactions on Mobile Computing, 2022, 21, 1958-1971.	5.8	2
2	Covert Communication in Continuous-Time Systems in the Presence of a Jammer. IEEE Transactions on Wireless Communications, 2022, 21, 4883-4897.	9.2	4
3	Asymptotic Privacy Loss Due to Time Series Matching of Dependent Users. IEEE Communications Letters, 2021, 25, 1079-1083.	4.1	1
4	Robust Power Allocation in Covert Communication: Imperfect CDI. IEEE Transactions on Vehicular Technology, 2021, 70, 5789-5802.	6.3	9
5	Fundamental Limits of Invisible Flow Fingerprinting. IEEE Transactions on Information Forensics and Security, 2020, 15, 345-360.	6.9	6
6	Sequence Obfuscation to Thwart Pattern Matching Attacks. , 2020, , .		2
7	Optimal PHY Configuration in Wireless Networks. IEEE/ACM Transactions on Networking, 2020, 28, 2601-2614.	3.8	0
8	Leveraging Prior Knowledge Asymmetries in the Design of Location Privacy-Preserving Mechanisms. IEEE Wireless Communications Letters, 2020, 9, 2005-2009.	5.0	1
9	Covert Communication Using Null Space and 3D Beamforming: Uncertainty of Willie's Location Information. IEEE Transactions on Vehicular Technology, 2020, 69, 8568-8576.	6.3	25
10	Privacy of Dependent Users Against Statistical Matching. IEEE Transactions on Information Theory, 2020, 66, 5842-5865.	2.4	7
11	Fundamental Limits of Covert Packet Insertion. IEEE Transactions on Communications, 2020, 68, 3401-3414.	7.8	12
12	Optimal Power Adaptation in Covert Communication With an Uninformed Jammer. IEEE Transactions on Wireless Communications, 2020, 19, 3463-3473.	9.2	33
13	Asymptotic Limits of Privacy in Bayesian Time Series Matching. , 2019, , .		2
14	Covert Communications in Packet Collision Channels. , 2019, , .		1
15	Asymptotic Loss in Privacy due to Dependency in Gaussian Traces. , 2019, , .		10
16	Matching Anonymized and Obfuscated Time Series to Users' Profiles. IEEE Transactions on Information Theory, 2019, 65, 724-741.	2.4	28
17	Multi-Hop Routing in Covert Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 3656-3669.	9.2	40
18	Fundamental Limits of Covert Bit Insertion in Packets. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Privacy Against Statistical Matching: Inter-User Correlation. , 2018, , .		11
20	Statistical matching in the presence of anonymization and obfuscation: Non-asymptotic results in the discrete case. , 2018, , .		4
21	Covert Wireless Communication With Artificial Noise Generation. IEEE Transactions on Wireless Communications, 2018, 17, 7252-7267.	9.2	100
22	Fundamental limits of location privacy using anonymization. , 2017, , .		10
23	Covert Communication in the Presence of an Uninformed Jammer. IEEE Transactions on Wireless Communications, 2017, 16, 6193-6206.	9.2	245
24	Limits of location privacy under anonymization and obfuscation. , 2017, , .		28
25	Bayesian time series matching and privacy. , 2017, , .		5
26	Towards provably invisible network flow fingerprints. , 2017, , .		13
27	Covert communications on renewal packet channels. , 2016, , .		10
28	Covert Communication Gains From Adversary's Ignorance of Transmission Time. IEEE Transactions on Wireless Communications, 2016, 15, 8394-8405.	9.2	94
29	Energy-Efficient Routing in Wireless Networks in the Presence of Jamming. IEEE Transactions on Wireless Communications, 2016, 15, 6828-6842.	9.2	17
30	Covert communication over classical-quantum channels. , 2016, , .		34
31	Covert Communications When the Warden Does Not Know the Background Noise Power. IEEE Communications Letters, 2016, 20, 236-239.	4.1	86
32	Covert communications on Poisson packet channels. , 2015, , .		15
33	Performance Bounds for Grouped Incoherent Measurements in Compressive Sensing. IEEE Transactions on Signal Processing, 2015, 63, 2877-2887.	5.3	5
34	Hiding information in noise: fundamental limits of covert wireless communication. , 2015, 53, 26-31.		213
35	Identification of Wireless Devices of Users Who Actively Fake Their RF Fingerprints With Artificial Data Distortion. IEEE Transactions on Wireless Communications, 2015, 14, 5889-5899.	9.2	51
36	Wireless Device Identification Based on RF Oscillator Imperfections. IEEE Transactions on Information Forensics and Security, 2015, 10, 2492-2501.	6.9	52

#	ARTICLE	IF	CITATIONS
37	Quantum-secure covert communication on bosonic channels. Nature Communications, 2015, 6, 8626.	12.8	78
38	Jamming Based on an Ephemeral Key to Obtain Everlasting Security in Wireless Environments. IEEE Transactions on Wireless Communications, 2015, 14, 6072-6081.	9.2	7
39	Minimum Energy Routing and Jamming to Thwart Wireless Network Eavesdroppers. IEEE Transactions on Mobile Computing, 2015, 14, 1433-1448.	5.8	32
40	Covert single-hop communication in a wireless network with distributed artificial noise generation. , 2014, , .		32
41	Secrecy Rate Pair Constraints for Secure Throughput. , 2014, , .		1
42	Everlasting secrecy in wireless communications: Challenges and approaches. , 2014, , .		0
43	LPD communication when the warden does not know when. , 2014, , .		60
44	Wireless device identification based on RF oscillator imperfections. , 2014, , .		3
45	Asymptotic Optimality of Equal Power Allocation for Linear Estimation of WSS Random Processes. IEEE Wireless Communications Letters, 2013, 2, 247-250.	5.0	5
46	Optimizing Control Overhead for Power-Aware Routing in Wireless Networks. , 2013, , .		1
47	Broadcast Analysis for Extended Cooperative Wireless Networks. IEEE Transactions on Information Theory, 2013, 59, 5805-5810.	2.4	59
48	Recovery of sparse signals from amplitude-limited sample sets. , 2013, , .		4
49	Inferring Military Activity in Hybrid Networks through Cache Behavior. , 2013, , .		5
50	Everlasting Secrecy by Exploiting Non-Idealities of the Eavesdropper's Receiver. IEEE Journal on Selected Areas in Communications, 2013, 31, 1828-1839.	14.0	16
51	Limits of Reliable Communication with Low Probability of Detection on AWGN Channels. IEEE Journal on Selected Areas in Communications, 2013, 31, 1921-1930.	14.0	524
52	Quantum noise limited optical communication with low probability of detection. , 2013, , .		14
53	Artificial intersymbol interference (ISI) to exploit receiver imperfections for secrecy. , 2013, , .		10
54	Peak Minimization for Reference-Based Ultra-Wideband (UWB) Radio. IEEE Transactions on Communications, 2012, 60, 2054-2058.	7.8	0

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55	Grouped incoherent measurements for compressive sensing. , 2012, , .		2
56	Square root law for communication with low probability of detection on AWGN channels. , 2012, , .		63
57	Exploiting the non-commutativity of nonlinear operators for information-theoretic security in disadvantaged wireless environments. , 2012, , .		5
58	Energy Efficiency of Cooperative Jamming Strategies in Secure Wireless Networks. IEEE Transactions on Wireless Communications, 2012, 11, 3025-3029.	9.2	35
59	On the Application of Cooperative Transmission to Secrecy Communications. IEEE Journal on Selected Areas in Communications, 2012, 30, 359-368.	14.0	125
60	RF fingerprinting of users who actively mask their identities with artificial distortion. , 2011, , .		13
61	On the Study of Analogue Network Coding for Multi-Pair, Bidirectional Relay Channels. IEEE Transactions on Wireless Communications, 2011, 10, 670-681.	9.2	52
62	Opportunistic Relaying for Secrecy Communications: Cooperative Jamming vs. Relay Chatting. IEEE Transactions on Wireless Communications, 2011, 10, 1725-1729.	9.2	116
63	Minimum-Energy Cooperative Routing in Wireless Networks with Channel Variations. IEEE Transactions on Wireless Communications, 2011, 10, 3813-3823.	9.2	28
64	Power allocation to noise-generating nodes for cooperative secrecy in the wireless environment. , 2011, , .		1
65	Clustering in cooperative networks. , 2011, , .		6
66	Artificial Noise Generation from Cooperative Relays for Everlasting Secrecy in Two-Hop Wireless Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 2067-2076.	14.0	87
67	Identifying Wireless Users via Transmitter Imperfections. IEEE Journal on Selected Areas in Communications, 2011, 29, 1469-1479.	14.0	158
68	Wireless physical-layer security performance of UWB systems. , 2010, , .		9
69	Convergence of the Complex Envelope of Bandlimited OFDM Signals. IEEE Transactions on Information Theory, 2010, 56, 4893-4904.	2.4	87
70	A Relay Assisted Cooperative Transmission Protocol for Wireless Multiple Access Systems. IEEE Transactions on Communications, 2010, 58, 2425-2435.	7.8	17
71	Target tracking with packet delays and losses - QoI amid latencies and missing data. , 2010, , .		4
72	Identification of wireless users via power amplifier imperfections. , 2010, , .		20

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73	Security-capacity trade-off in large wireless networks using keyless secrecy. , 2010, , .		56
74	On the Performance of Cooperative Routing in Wireless Networks. , 2010, , .		14
75	Multi-user diversity for secrecy in wireless networks. , 2010, , .		18
76	Cooperative Transmission Protocols for Wireless Broadcast Channels. IEEE Transactions on Wireless Communications, 2010, 9, 3701-3713.	9.2	11
77	Bounds on the throughput gain of network coding in unicast and multicast wireless networks. IEEE Journal on Selected Areas in Communications, 2009, 27, 582-592.	14.0	33
78	On the study of network coding with diversity. IEEE Transactions on Wireless Communications, 2009, 8, 1247-1259.	9.2	154
79	A unified framework for reference-based ultra-wideband signaling. , 2009, , .		4
80	The capacity of MIMO systems with increasing SNR by electromagnetic analysis. IEEE Transactions on Wireless Communications, 2009, 8, 4752-4761.	9.2	6
81	A new form of network coded cooperative transmission for multiple access channels. , 2008, , .		0
82	Modeling distributed beamforming in wireless networks. , 2008, , .		5
83	Optimization of frequency-shifted reference ultrawideband systems. , 2008, , .		1
84	Performance of UWB systems in the presence of severe multipath and narrowband interference. , 2008, , .		8
85	Hybrid Coherent and Frequency-Shifted-Reference Ultrawideband Radio. , 2007, , .		5
86	Peak Power Reduction in Closed-Loop MIMO-OFDM Systems via Mode Reservation. IEEE Communications Letters, 2007, 11, 583-585.	4.1	7
87	Adaptive Signaling Based on Statistical Characterizations of Outdated Feedback in Wireless Communications. Proceedings of the IEEE, 2007, 95, 2337-2353.	21.3	20
88	A Class of Ultra Wideband (UWB) Systems with Simple Receivers. , 2007, , .		8
89	Achievable Rates for Network Coding on the Exchange Channel. , 2007, , .		35
90	Introduction to the Issue on Performance Limits of Ultra-Wideband Systems. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 337-339.	10.8	3

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91	Slightly Frequency-Shifted Reference Ultra-Wideband (UWB) Radio. IEEE Transactions on Communications, 2007, 55, 508-519.	7.8	106
92	FSR-UWB (TR-UWB without the Delay Element): Effect of Impulse Dithering and Experimental Results. , 2006, , .		15
93	Multi-Differential Slightly Frequency-Shifted Reference Ultra-wideband (UWB) Radio. , 2006, , .		21
94	Surface refractive index field estimation from multiple radars. Radio Science, 2006, 41, n/a-n/a.	1.6	6