

Dennis L Goeckel

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

3,394
citations

257450

24
h-index

233421

45
g-index

94
all docs

94
docs citations

94
times ranked

1769
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Covert Communication in the Presence of an Uninformed Jammer. IEEE Transactions on Wireless Communications, 2017, 16, 6193-6206.	9.2	245
3	Hiding information in noise: fundamental limits of covert wireless communication. , 2015, 53, 26-31.		213
4	Identifying Wireless Users via Transmitter Imperfections. IEEE Journal on Selected Areas in Communications, 2011, 29, 1469-1479.	14.0	158
5	On the study of network coding with diversity. IEEE Transactions on Wireless Communications, 2009, 8, 1247-1259.	9.2	154
6	On the Application of Cooperative Transmission to Secrecy Communications. IEEE Journal on Selected Areas in Communications, 2012, 30, 359-368.	14.0	125
7	Opportunistic Relaying for Secrecy Communications: Cooperative Jamming vs. Relay Chatting. IEEE Transactions on Wireless Communications, 2011, 10, 1725-1729.	9.2	116
8	Slightly Frequency-Shifted Reference Ultra-Wideband (UWB) Radio. IEEE Transactions on Communications, 2007, 55, 508-519.	7.8	106
9	Covert Wireless Communication With Artificial Noise Generation. IEEE Transactions on Wireless Communications, 2018, 17, 7252-7267.	9.2	100
10	Covert Communication Gains From Adversary's Ignorance of Transmission Time. IEEE Transactions on Wireless Communications, 2016, 15, 8394-8405.	9.2	94
11	Convergence of the Complex Envelope of Bandlimited OFDM Signals. IEEE Transactions on Information Theory, 2010, 56, 4893-4904.	2.4	87
12	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
13	Covert Communications When the Warden Does Not Know the Background Noise Power. IEEE Communications Letters, 2016, 20, 236-239.	4.1	86
14	Quantum-secure covert communication on bosonic channels. Nature Communications, 2015, 6, 8626.	12.8	78
15	Square root law for communication with low probability of detection on AWGN channels. , 2012, , .		63
16	LPD communication when the warden does not know when. , 2014, , .		60
17	Broadcast Analysis for Extended Cooperative Wireless Networks. IEEE Transactions on Information Theory, 2013, 59, 5805-5810.	2.4	59
18	Security-capacity trade-off in large wireless networks using keyless secrecy. , 2010, , .		56

#	ARTICLE	IF	CITATIONS
19	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
20	Wireless Device Identification Based on RF Oscillator Imperfections. IEEE Transactions on Information Forensics and Security, 2015, 10, 2492-2501.	6.9	52
21	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
22	Multi-Hop Routing in Covert Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 3656-3669.	9.2	40
23	Achievable Rates for Network Coding on the Exchange Channel. , 2007, , .		35
24	Energy Efficiency of Cooperative Jamming Strategies in Secure Wireless Networks. IEEE Transactions on Wireless Communications, 2012, 11, 3025-3029.	9.2	35
25	Covert communication over classical-quantum channels. , 2016, , .		34
26	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
27	Optimal Power Adaptation in Covert Communication With an Uninformed Jammer. IEEE Transactions on Wireless Communications, 2020, 19, 3463-3473.	9.2	33
28	Covert single-hop communication in a wireless network with distributed artificial noise generation. , 2014, , .		32
29	Minimum Energy Routing and Jamming to Thwart Wireless Network Eavesdroppers. IEEE Transactions on Mobile Computing, 2015, 14, 1433-1448.	5.8	32
30	Minimum-Energy Cooperative Routing in Wireless Networks with Channel Variations. IEEE Transactions on Wireless Communications, 2011, 10, 3813-3823.	9.2	28
31	Limits of location privacy under anonymization and obfuscation. , 2017, , .		28
32	Matching Anonymized and Obfuscated Time Series to Users' Profiles. IEEE Transactions on Information Theory, 2019, 65, 724-741.	2.4	28
33	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
34	Multi-Differential Slightly Frequency-Shifted Reference Ultra-wideband (UWB) Radio. , 2006, , .		21
35	Adaptive Signaling Based on Statistical Characterizations of Outdated Feedback in Wireless Communications. Proceedings of the IEEE, 2007, 95, 2337-2353.	21.3	20
36	Identification of wireless users via power amplifier imperfections. , 2010, , .		20

#	ARTICLE	IF	CITATIONS
37	Multi-user diversity for secrecy in wireless networks. , 2010, , .		18
38	A Relay Assisted Cooperative Transmission Protocol for Wireless Multiple Access Systems. IEEE Transactions on Communications, 2010, 58, 2425-2435.	7.8	17
39	Energy-Efficient Routing in Wireless Networks in the Presence of Jamming. IEEE Transactions on Wireless Communications, 2016, 15, 6828-6842.	9.2	17
40	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
41	FSR-UWB (TR-UWB without the Delay Element): Effect of Impulse Dithering and Experimental Results. , 2006, , .		15
42	Covert communications on Poisson packet channels. , 2015, , .		15
43	On the Performance of Cooperative Routing in Wireless Networks. , 2010, , .		14
44	Quantum noise limited optical communication with low probability of detection. , 2013, , .		14
45	RF fingerprinting of users who actively mask their identities with artificial distortion. , 2011, , .		13
46	Towards provably invisible network flow fingerprints. , 2017, , .		13
47	Fundamental Limits of Covert Packet Insertion. IEEE Transactions on Communications, 2020, 68, 3401-3414.	7.8	12
48	Cooperative Transmission Protocols for Wireless Broadcast Channels. IEEE Transactions on Wireless Communications, 2010, 9, 3701-3713.	9.2	11
49	Privacy Against Statistical Matching: Inter-User Correlation. , 2018, , .		11
50	Artificial intersymbol interference (ISI) to exploit receiver imperfections for secrecy. , 2013, , .		10
51	Covert communications on renewal packet channels. , 2016, , .		10
52	Fundamental limits of location privacy using anonymization. , 2017, , .		10
53	Asymptotic Loss in Privacy due to Dependency in Gaussian Traces. , 2019, , .		10
54	Wireless physical-layer security performance of UWB systems. , 2010, , .		9

#	ARTICLE	IF	CITATIONS
55	Robust Power Allocation in Covert Communication: Imperfect CDI. IEEE Transactions on Vehicular Technology, 2021, 70, 5789-5802.	6.3	9
56	A Class of Ultra Wideband (UWB) Systems with Simple Receivers. , 2007, , .		8
57	Performance of UWB systems in the presence of severe multipath and narrowband interference. , 2008, , .		8
58	Peak Power Reduction in Closed-Loop MIMO-OFDM Systems via Mode Reservation. IEEE Communications Letters, 2007, 11, 583-585.	4.1	7
59	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
60	Privacy of Dependent Users Against Statistical Matching. IEEE Transactions on Information Theory, 2020, 66, 5842-5865.	2.4	7
61	Surface refractive index field estimation from multiple radars. Radio Science, 2006, 41, n/a-n/a.	1.6	6
62	The capacity of MIMO systems with increasing SNR by electromagnetic analysis. IEEE Transactions on Wireless Communications, 2009, 8, 4752-4761.	9.2	6
63	Clustering in cooperative networks. , 2011, , .		6
64	Fundamental Limits of Invisible Flow Fingerprinting. IEEE Transactions on Information Forensics and Security, 2020, 15, 345-360.	6.9	6
65	Hybrid Coherent and Frequency-Shifted-Reference Ultrawideband Radio. , 2007, , .		5
66	Modeling distributed beamforming in wireless networks. , 2008, , .		5
67	Exploiting the non-commutativity of nonlinear operators for information-theoretic security in disadvantaged wireless environments. , 2012, , .		5
68	Asymptotic Optimality of Equal Power Allocation for Linear Estimation of WSS Random Processes. IEEE Wireless Communications Letters, 2013, 2, 247-250.	5.0	5
69	Inferring Military Activity in Hybrid Networks through Cache Behavior. , 2013, , .		5
70	Performance Bounds for Grouped Incoherent Measurements in Compressive Sensing. IEEE Transactions on Signal Processing, 2015, 63, 2877-2887.	5.3	5
71	Bayesian time series matching and privacy. , 2017, , .		5
72	A unified framework for reference-based ultra-wideband signaling. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
73	Target tracking with packet delays and losses - QoI amid latencies and missing data. , 2010, , .		4
74	Recovery of sparse signals from amplitude-limited sample sets. , 2013, , .		4
75	Statistical matching in the presence of anonymization and obfuscation: Non-asymptotic results in the discrete case. , 2018, , .		4
76	Covert Communication in Continuous-Time Systems in the Presence of a Jammer. IEEE Transactions on Wireless Communications, 2022, 21, 4883-4897.	9.2	4
77	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
78	Wireless device identification based on RF oscillator imperfections. , 2014, , .		3
79	Fundamental Limits of Covert Bit Insertion in Packets. , 2018, , .		3
80	Grouped incoherent measurements for compressive sensing. , 2012, , .		2
81	Asymptotic Limits of Privacy in Bayesian Time Series Matching. , 2019, , .		2
82	Sequence Obfuscation to Thwart Pattern Matching Attacks. , 2020, , .		2
83	Covert Communications in Multi-Channel Slotted ALOHA Systems. IEEE Transactions on Mobile Computing, 2022, 21, 1958-1971.	5.8	2
84	Optimization of frequency-shifted reference ultrawideband systems. , 2008, , .		1
85	Power allocation to noise-generating nodes for cooperative secrecy in the wireless environment. , 2011, , .		1
86	Optimizing Control Overhead for Power-Aware Routing in Wireless Networks. , 2013, , .		1
87	Secrecy Rate Pair Constraints for Secure Throughput. , 2014, , .		1
88	Covert Communications in Packet Collision Channels. , 2019, , .		1
89	Leveraging Prior Knowledge Asymmetries in the Design of Location Privacy-Preserving Mechanisms. IEEE Wireless Communications Letters, 2020, 9, 2005-2009.	5.0	1
90	Asymptotic Privacy Loss Due to Time Series Matching of Dependent Users. IEEE Communications Letters, 2021, 25, 1079-1083.	4.1	1

#	ARTICLE	IF	CITATIONS
91	A new form of network coded cooperative transmission for multiple access channels. , 2008, , .		0
92	Peak Minimization for Reference-Based Ultra-Wideband (UWB) Radio. IEEE Transactions on Communications, 2012, 60, 2054-2058.	7.8	0
93	Everlasting secrecy in wireless communications: Challenges and approaches. , 2014, , .		0
94	Optimal PHY Configuration in Wireless Networks. IEEE/ACM Transactions on Networking, 2020, 28, 2601-2614.	3.8	0