

Erik G Ström

List of Publications by Year in descending order

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101
papers

2,812
citations

361045

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45
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all docs

102
docs citations

102
times ranked

2347
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagation delay estimation in asynchronous direct-sequence code-division multiple access systems. IEEE Transactions on Communications, 1996, 44, 84-93.	4.9	288
2	Wireless Access for Ultra-Reliable Low-Latency Communication: Principles and Building Blocks. IEEE Network, 2018, 32, 16-23.	4.9	268
3	Radio Resource Management for D2D-Based V2V Communication. IEEE Transactions on Vehicular Technology, 2016, 65, 6636-6650.	3.9	236
4	Cooperative Received Signal Strength-Based Sensor Localization With Unknown Transmit Powers. IEEE Transactions on Signal Processing, 2013, 61, 1389-1403.	3.2	196
5	RSS-Based Sensor Localization in the Presence of Unknown Channel Parameters. IEEE Transactions on Signal Processing, 2013, 61, 3752-3759.	3.2	136
6	Evaluation of the IEEE 802.11p MAC Method for Vehicle-to-Vehicle Communication. , 2008, , .		133
7	On the Optimality of the Binary Reflected Gray Code. IEEE Transactions on Information Theory, 2004, 50, 3170-3182.	1.5	132
8	Computation of the exact bit-error rate of coherent M -ary PSK with gray code bit mapping. IEEE Transactions on Communications, 2003, 51, 1758-1760.	4.9	83
9	The impact of timing errors on the performance of linear DS-CDMA receivers. IEEE Journal on Selected Areas in Communications, 1996, 14, 1660-1668.	9.7	65
10	Improved Position Estimation Using Hybrid TW-TOA and TDOA in Cooperative Networks. IEEE Transactions on Signal Processing, 2012, 60, 3770-3785.	3.2	64
11	DS-CDMA synchronization in time-varying fading channels. IEEE Journal on Selected Areas in Communications, 1996, 14, 1636-1642.	9.7	62
12	RSS-based sensor localization with unknown transmit power. , 2011, , .		61
13	A maximum likelihood approach for estimating DS-CDMA multipath fading channels. IEEE Journal on Selected Areas in Communications, 2000, 18, 132-140.	9.7	56
14	On Medium Access and Physical Layer Standards for Cooperative Intelligent Transport Systems in Europe. Proceedings of the IEEE, 2011, 99, 1183-1188.	16.4	56
15	TDOA Based Positioning in the Presence of Unknown Clock Skew. IEEE Transactions on Communications, 2013, 61, 2522-2534.	4.9	55
16	Enabling Accurate Cross-Layer PHY/MAC/NET Simulation Studies of Vehicular Communication Networks. Proceedings of the IEEE, 2011, 99, 1311-1326.	16.4	53
17	Short Packets Over Block-Memoryless Fading Channels: Pilot-Assisted or Noncoherent Transmission?. IEEE Transactions on Communications, 2019, 67, 1521-1536.	4.9	53
18	Gray Coding for Multilevel Constellations in Gaussian Noise. IEEE Transactions on Information Theory, 2007, 53, 224-235.	1.5	48

#	ARTICLE	IF	CITATIONS
19	A Concave-Convex Procedure for TDOA Based Positioning. IEEE Communications Letters, 2013, 17, 765-768.	2.5	39
20	Robust Sensor Network Positioning Based on Projections onto Circular and Hyperbolic Convex Sets (POCS)., 2006, , .		35
21	Wireless network positioning as a convex feasibility problem. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	34
22	How Severe Is the Hidden Terminal Problem in VANETs When Using CSMA and STDMA?. , 2011, , .		32
23	Cooperative Wireless Sensor Network Positioning via Implicit Convex Feasibility. IEEE Transactions on Signal Processing, 2013, 61, 5830-5840.	3.2	31
24	Bearing-only target localization with uncertainties in observer position. , 2010, , .		29
25	Bridging the Gap between Physical Layer Emulation and Network Simulation. , 2010, , .		29
26	Nested Sparse Approximation: Structured Estimation of V2V Channels Using Geometry-Based Stochastic Channel Model. IEEE Transactions on Signal Processing, 2015, 63, 4940-4955.	3.2	29
27	Challenges for cooperative ITS: Improving road safety through the integration of wireless communications, control, and positioning. , 2015, , .		24
28	Scalability Issues of the MAC Methods STDMA and CSMA of IEEE 802.11p When Used in VANETs. , 2010, , .		23
29	In-depth analysis and evaluation of Self-organizing TDMA. , 2013, , .		20
30	Asynchronous near-far resistant DS-CDMA receivers without a priori synchronization. IEEE Transactions on Communications, 1999, 47, 78-88.	4.9	19
31	Properties of the single-bit single-user MMSE receiver for DS-CDMA systems. IEEE Transactions on Communications, 1999, 47, 416-425.	4.9	19
32	Delay and interference comparison of CSMA and self-organizing TDMA when used in VANETs. , 2011, , .		19
33	TW-TOA based positioning in the presence of clock imperfections. , 2016, 59, 19-30.		15
34	Vehicular Communications: Ubiquitous Networks for Sustainable Mobility [Point of View]. Proceedings of the IEEE, 2010, 98, 1111-1112.	16.4	14
35	Hybrid TW-TOA/TDOA Positioning Algorithms for Cooperative Wireless Networks. , 2011, , .		14
36	Suboptimal Soft Range Estimators With Applications in UWB Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 4856-4866.	3.2	13

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37	Scheduling and Power Control for V2V Broadcast Communications With Co-Channel and Adjacent Channel Interference. IEEE Access, 2019, 7, 67041-67058.	2.6	13
38	Design of False Data Injection Attack on Distributed Process Estimation. IEEE Transactions on Information Forensics and Security, 2022, 17, 670-683.	4.5	13
39	Iterative Multiuser Detection and Decoding for DS-CDMA System With Space-Time Linear Dispersion. IEEE Transactions on Vehicular Technology, 2009, 58, 2343-2353.	3.9	12
40	Positioning of Node Using Plane Projection onto Convex Sets. , 2010, , .		12
41	Superconducting multiuser detector for 3G base stations. Superconductor Science and Technology, 2002, 15, 126-132.	1.8	11
42	Clock-offset cancellation methods for positioning in asynchronous sensor networks. , 0, , .		11
43	An Algorithm for Positioning Relays and Point Scatterers in Wireless Systems. IEEE Signal Processing Letters, 2008, 15, 381-384.	2.1	11
44	On the Needs and Requirements Arising from Connected and Automated Driving. Journal of Sensor and Actuator Networks, 2020, 9, 24.	2.3	11
45	Adjacent Channel Interference Aware Joint Scheduling and Power Control for V2V Broadcast Communication. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 443-456.	4.7	11
46	A Theoretical Evaluation of Parallel Interference Cancellation in M-Ary Orthogonal Modulated Asynchronous DS-CDMA System Over Multipath Rayleigh Fading Channels. IEEE Transactions on Vehicular Technology, 2005, 54, 1400-1414.	3.9	10
47	A distributed positioning algorithm for cooperative active and passive sensors. , 2010, , .		10
48	An analytical approximation to the block error rate in Nakagami-m non-selective block fading channels. IEEE Transactions on Wireless Communications, 2010, 9, 1543-1546.	6.1	10
49	Robust distributed positioning algorithms for cooperative networks. , 2011, , .		10
50	Ultra-wide band sensor networks for tracking point scatterers or relays. , 2009, , .		9
51	On Optimum Causal Cognitive Spectrum Reutilization Strategy. IEEE Journal on Selected Areas in Communications, 2012, 30, 1911-1921.	9.7	9
52	On geometric upper bounds for positioning algorithms in wireless sensor networks. Signal Processing, 2015, 111, 179-193.	2.1	9
53	Power control for broadcast V2V communications with adjacent carrier interference effects. , 2016, , .		9
54	Distributed Bounding of Feasible Sets in Cooperative Wireless Network Positioning. IEEE Communications Letters, 2013, 17, 1596-1599.	2.5	8

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55	Geometry-based stochastic modeling and estimation of vehicle to vehicle channels. , 2014, , .		8
56	Adapting the Ranging Algorithm to the Positioning Technique in UWB Sensor Networks. Wireless Personal Communications, 2008, 47, 27-38.	1.8	7
57	Soft demodulation algorithms for orthogonally modulated and convolutionally coded DS-CDMA systems. IEEE Transactions on Communications, 2010, 58, 742-747.	4.9	7
58	Vehicular Communications [Scanning the Issue]. Proceedings of the IEEE, 2011, 99, 1158-1161.	16.4	7
59	Positioning algorithms for cooperative networks in the presence of an unknown turn-around time. , 2011, , .		7
60	Secure Estimation in V2X Networks with Injection and Packet Drop Attacks. , 2018, , .		7
61	Terrestrial Network-Based Positioning and Navigation. , 2012, , 75-153.		6
62	TW-TOA based cooperative sensor network localization with unknown turn-around time. , 2013, , .		5
63	Range based sensor node localization in the presence of unknown clock skews. , 2013, , .		5
64	Robust Connectivity With Multiple Directional Antennas for Vehicular Communications. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5305-5315.	4.7	5
65	Hybrid Combining of Directional Antennas for Periodic Broadcast V2V Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3226-3243.	4.7	5
66	Autonomous Positioning Techniques Based on Cram�r-Rao Lower Bound Analysis. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	4
67	A Scheduling Algorithm for Minimizing the Packet Error Probability in Clusterized TDMA Networks. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	4
68	Distributed clock synchronization with application of D2D communication without infrastructure. , 2013, , .		4
69	On 20 MHz channel spacing for V2X communication based on 802.11 OFDM. , 2013, , .		4
70	Sensing or Transmission: Causal Cognitive Radio Strategies with Censorship. IEEE Transactions on Wireless Communications, 2014, 13, 3031-3041.	6.1	4
71	Radio Resource Management for V2V Multihop Communication Considering Adjacent Channel Interference. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7084-7101.	4.7	4
72	Robust Analog Beamforming for Periodic Broadcast V2V Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18404-18422.	4.7	4

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73	Guest editorial - signal synchronization in digital transmission systems. IEEE Journal on Selected Areas in Communications, 2001, 19, 2293-2297.	9.7	3
74	A Unified Analysis for Coded DS-CDMA With Equal-Gain Chip Combining in the Downlink of OFDM Systems. IEEE Transactions on Communications, 2005, 53, 289-298.	4.9	3
75	An authenticated group key agreement for wireless networks. , 0, , .		3
76	Joint data detection and estimation of time-varying multipath rayleigh fading channels in asynchronous DS-CDMA systems with long spreading sequences. European Transactions on Telecommunications, 2007, 18, 115-132.	1.2	3
77	An algorithm for mapping the positions of point scatterers. , 2008, , .		3
78	An LLR-Based Cognitive Transmission Strategy for Higher Spectrum Reutilization. , 2011, , .		3
79	On clock offset and skew estimation with exponentially distributed delays. , 2013, , .		3
80	Structured sparse approximation via generalized regularizers: With application to V2V channel estimation. , 2014, , .		3
81	Upper bounds on position error of a single location estimate in wireless sensor networks. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	3
82	Optimal deception attack on networked vehicular cyber physical systems. , 2019, , .		3
83	Short-Packet Transmission via Variable-Length Codes in the Presence of Noisy Stop Feedback. IEEE Transactions on Wireless Communications, 2021, 20, 214-227.	6.1	3
84	System design approach for RSFQ multiuser detector. IEEE Transactions on Applied Superconductivity, 2003, 13, 437-440.	1.1	2
85	Practical automotive applications of Cramer-Rao bound analysis. , 2005, , .		2
86	Performance Analysis of Receivers Using Sector Antennas for Broadcast Vehicular Communications. IEEE Transactions on Communications, 2019, 67, 3677-3692.	4.9	2
87	Multiuser detection and channel estimation algorithms for M-ary DS-CDMA systems in multipath rayleigh fading channels. , 0, , .		1
88	Bit error probability of coherent M-ary PSK over flat Rayleigh fading channels. Electronics Letters, 2005, 41, 1186.	0.5	1
89	Novel wireless location approach for W-CDMA systems based on multiple sliding correlators. , 0, , .		1
90	Long-Term Clock Synchronization in wireless sensor networks with arbitrary delay distributions. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
91	Pilot-aided acquisition algorithms for asynchronous. European Transactions on Telecommunications, 2003, 14, 89-96.	1.2	0
92	BER performance analysis of multistage PIC scheme in asynchronous DS-CDMA system over unbalanced multipath fading channels. , 2005, , .		0
93	An Approach to Positioning Road-Users in a Telematics Network. , 2007, , .		0
94	Guest Editorial Multiuser Detection for Advanced Communication Systems and Networks. IEEE Journal on Selected Areas in Communications, 2008, 26, 417-420.	9.7	0
95	Topology Aware Link Throughput of Slotted Aloha in Rayleigh Block Fading Channels. , 2010, , .		0
96	A Low-Complexity Semi-Analytical Approximation to the Block Error Rate in Nakagami-m Block Fading Channels. , 2010, , .		0
97	A Complexity Adjustable Scheduling Algorithm for Throughput Maximization in Clusterized TDMA Networks. , 2010, , .		0
98	Innovative Signal Processing Techniques for Wireless Positioning. , 2012, , 207-315.		0
99	Casting Signal Processing to Real-World Data. , 2012, , 383-419.		0
100	Correction of extrinsic information for iterative decoding in a serially concatenated multiuser DS-CDMA system. IEEE Transactions on Wireless Communications, 2006, 5, 591-602.	6.1	0
101	Sensitivity Analysis of Beamforming Techniques for Periodic Broadcast V2V Communication. , 2021, , .		0