Erik G StrÃ¶m

List of Publications by Year
in descending order

101	2,812	361045	233125
papers	citations	20 h-index	45 g-index

102	102	102	2347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid Combining of Directional Antennas for Periodic Broadcast V2V Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3226-3243.	4.7	5
2	Design of False Data Injection Attack on Distributed Process Estimation. IEEE Transactions on Information Forensics and Security, 2022, 17, 670-683.	4.5	13
3	Robust Analog Beamforming for Periodic Broadcast V2V Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18404-18422.	4.7	4
4	Radio Resource Management for V2V Multihop Communication Considering Adjacent Channel Interference. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7084-7101.	4.7	4
5	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
6	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
7	Sensitivity Analysis of Beamforming Techniques for Periodic Broadcast V2V Communication. , 2021, , .		0
8	On the Needs and Requirements Arising from Connected and Automated Driving. Journal of Sensor and Actuator Networks, 2020, 9, 24.	2.3	11
9	Robust Connectivity With Multiple Directional Antennas for Vehicular Communications. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5305-5315.	4.7	5
10	Scheduling and Power Control for V2V Broadcast Communications With Co-Channel and Adjacent Channel Interference. IEEE Access, 2019, 7, 67041-67058.	2.6	13
11	Optimal deception attack on networked vehicular cyber physical systems. , 2019, , .		3
12	Performance Analysis of Receivers Using Sector Antennas for Broadcast Vehicular Communications. IEEE Transactions on Communications, 2019, 67, 3677-3692.	4.9	2
13	Short Packets Over Block-Memoryless Fading Channels: Pilot-Assisted or Noncoherent Transmission?. IEEE Transactions on Communications, 2019, 67, 1521-1536.	4.9	53
14	Wireless Access for Ultra-Reliable Low-Latency Communication: Principles and Building Blocks. IEEE Network, 2018, 32, 16-23.	4.9	268
15	Secure Estimation in V2X Networks with Injection and Packet Drop Attacks. , 2018, , .		7
16	TW-TOA based positioning in the presence of clock imperfections. , 2016, 59, 19-30.		15
17	Power control for broadcast V2V communications with adjacent carrier interference effects. , 2016, , .		9
18	Radio Resource Management for D2D-Based V2V Communication. IEEE Transactions on Vehicular Technology, 2016, 65, 6636-6650.	3.9	236

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19	On geometric upper bounds for positioning algorithms in wireless sensor networks. Signal Processing, 2015, 111, 179-193.	2.1	9
20	Challenges for cooperative ITS: Improving road safety through the integration of wireless communications, control, and positioning. , 2015, , .		24
21	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
22	Structured sparse approximation via generalized regularizers: With application to V2V channel estimation. , 2014, , .		3
23	Geometry-based stochastic modeling and estimation of vehicle to vehicle channels. , 2014, , .		8
24	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
25	Sensing or Transmission: Causal Cognitive Radio Strategies with Censorship. IEEE Transactions on Wireless Communications, 2014, 13, 3031-3041.	6.1	4
26	RSS-Based Sensor Localization in the Presence of Unknown Channel Parameters. IEEE Transactions on Signal Processing, 2013, 61, 3752-3759.	3.2	136
27	Cooperative Received Signal Strength-Based Sensor Localization With Unknown Transmit Powers. IEEE Transactions on Signal Processing, 2013, 61, 1389-1403.	3.2	196
28	Distributed Bounding of Feasible Sets in Cooperative Wireless Network Positioning. IEEE Communications Letters, 2013, 17, 1596-1599.	2.5	8
29	On clock offset and skew estimation with exponentially distributed delays. , 2013, , .		3
30	Distributed clock synchronization with application of D2D communication without infrastructure. , 2013, , .		4
31	TDOA Based Positioning in the Presence of Unknown Clock Skew. IEEE Transactions on Communications, 2013, 61, 2522-2534.	4.9	55
32	A Concave-Convex Procedure for TDOA Based Positioning. IEEE Communications Letters, 2013, 17, 765-768.	2.5	39
33	In-depth analysis and evaluation of Self-organizing TDMA. , 2013, , .		20
34	TW-TOA based cooperative sensor network localization with unknown turn-around time. , 2013, , .		5
35	Range based sensor node localization in the presence of unknown clock skews. , 2013, , .		5
36	Cooperative Wireless Sensor Network Positioning via Implicit Convex Feasibility. IEEE Transactions on Signal Processing, 2013, 61, 5830-5840.	3.2	31

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37	On 20 MHz channel spacing for V2X communication based on 802.11 OFDM. , 2013, , .		4
38	Innovative Signal Processing Techniques for Wireless Positioning. , 2012, , 207-315.		0
39	Long-Term Clock Synchronization in wireless sensor networks with arbitrary delay distributions. , 2012, , .		1
40	Improved Position Estimation Using Hybrid TW-TOA and TDOA in Cooperative Networks. IEEE Transactions on Signal Processing, 2012, 60, 3770-3785.	3.2	64
41	On Optimum Causal Cognitive Spectrum Reutilization Strategy. IEEE Journal on Selected Areas in Communications, 2012, 30, 1911-1921.	9.7	9
42	Terrestrial Network-Based Positioning and Navigation. , 2012, , 75-153.		6
43	Casting Signal Processing to Real-World Data. , 2012, , 383-419.		0
44	An LLR-Based Cognitive Transmission Strategy for Higher Spectrum Reutilization. , 2011, , .		3
45	Delay and interference comparison of CSMA and self-organizing TDMA when used in VANETs. , 2011, , .		19
46	RSS-based sensor localization with unknown transmit power. , 2011, , .		61
47	Enabling Accurate Cross-Layer PHY/MAC/NET Simulation Studies of Vehicular Communication Networks. Proceedings of the IEEE, 2011, 99, 1311-1326.	16.4	53
48	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
49	Vehicular Communications [Scanning the Issue]. Proceedings of the IEEE, 2011, 99, 1158-1161.	16.4	7
50	Wireless network positioning as a convex feasibility problem. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	34
51	How Severe Is the Hidden Terminal Problem in VANETs When Using CSMA and STDMA?. , 2011, , .		32
52	Positioning algorithms for cooperative networks in the presence of an unknown turn-around time. , 2011, , .		7
53	Robust distributed positioning algorithms for cooperative networks. , 2011, , .		10
54	Hybrid TW-TOA/TDOA Positioning Algorithms for Cooperative Wireless Networks. , 2011, , .		14

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55	Soft demodulation algorithms for orthogonally modulated and convolutionally coded DS-CDMA systems. IEEE Transactions on Communications, 2010, 58, 742-747.	4.9	7
56	Vehicular Communications: Ubiquitous Networks for Sustainable Mobility [Point of View]. Proceedings of the IEEE, 2010, 98, 1111-1112.	16.4	14
57	Scalability Issues of the MAC Methods STDMA and CSMA of IEEE 802.11p When Used in VANETs. , 2010, , .		23
58	Positioning of Node Using Plane Projection onto Convex Sets. , 2010, , .		12
59	Topology Aware Link Throughput of Slotted Aloha in Rayleigh Block Fading Channels. , 2010, , .		0
60	A Low-Complexity Semi-Analytical Approximation to the Block Error Rate in Nakagami-m Block Fading Channels. , 2010, , .		0
61	A distributed positioning algorithm for cooperative active and passive sensors. , 2010, , .		10
62	Bearing-only target localization with uncertainties in observer position. , 2010, , .		29
63	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
64	Bridging the Gap between Physical Layer Emulation and Network Simulation. , 2010, , .		29
65	A Complexity Adjustable Scheduling Algorithm for Throughput Maximization in Clusterized TDMA Networks. , 2010, , .		0
66	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
67	Ultra-wide band sensor networks for tracking point scatterers or relays. , 2009, , .		9
68	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
69	Adapting the Ranging Algorithm to the Positioning Technique in UWB Sensor Networks. Wireless Personal Communications, 2008, 47, 27-38.	1.8	7
70	Guest Editorial Multiuser Detection for Advanced Communication Systems and Networks. IEEE Journal on Selected Areas in Communications, 2008, 26, 417-420.	9.7	0
71	Evaluation of the IEEE 802.11p MAC Method for Vehicle-to-Vehicle Communication. , 2008, , .		133
72	An Algorithm for Positioning Relays and Point Scatterers in Wireless Systems. IEEE Signal Processing Letters, 2008, 15, 381-384.	2.1	11

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73	An algorithm for mapping the positions of point scatterers. , 2008, , .		3
74	Suboptimal Soft Range Estimators With Applications in UWB Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 4856-4866.	3.2	13
75	An Approach to Positioning Road-Users in a Telematics Network. , 2007, , .		0
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	Gray Coding for Multilevel Constellations in Gaussian Noise. IEEE Transactions on Information Theory, 2007, 53, 224-235.	1.5	48
78	Robust Sensor Network Positioning Based on Projections onto Circular and Hyperbolic Convex Sets (POCS). , 2006, , .		35
79	Autonomous Positioning Techniques Based on CramÃ©r-Rao Lower Bound Analysis. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	4
80	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
81	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
82	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
83	Bit error probability of coherent M-ary PSK over flat Rayleigh fading channels. Electronics Letters, 2005, 41, 1186.	0.5	1
84	BER performance analysis of multistage PIC scheme in asynchronous DS-CDMA system over unbalanced multipath fading channels. , 2005, , .		0
85	Practical automotive applications of Cramer-Rao bound analysis. , 2005, , .		2
86	On the Optimality of the Binary Reflected Gray Code. IEEE Transactions on Information Theory, 2004, 50, 3170-3182.	1.5	132
87	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
88	Pilot-aided acquisition algorithms for asynchronous. European Transactions on Telecommunications, 2003, 14, 89-96.	1.2	0
89	System design approach for RSFQ multiuser detector. IEEE Transactions on Applied Superconductivity, 2003, 13, 437-440.	1.1	2
90	Superconducting multiuser detector for 3G base stations. Superconductor Science and Technology, 2002, 15, 126-132.	1.8	11

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91	Guest editorial - signal synchronization in digital transmission systems. IEEE Journal on Selected Areas in Communications, 2001, 19, 2293-2297.	9.7	3
92	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
93	Asynchronous near-far resistant DS-CDMA receivers without a priori synchronization. IEEE Transactions on Communications, 1999, 47, 78-88.	4.9	19
94	Properties of the single-bit single-user MMSE receiver for DS-CDMA systems. IEEE Transactions on Communications, 1999, 47, 416-425.	4.9	19
95	DS-CDMA synchronization in time-varying fading channels. IEEE Journal on Selected Areas in Communications, 1996, 14, 1636-1642.	9.7	62
96	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
97	Propagation delay estimation in asynchronous direct-sequence code-division multiple access systems. IEEE Transactions on Communications, 1996, 44, 84-93.	4.9	288
98	Multiuser detection and channel estimation algorithms for M-ary DS-CDMA systems in multipath rayleigh fading channels. , 0, , .		1
99	Clock-offset cancellation methods for positioning in asynchronous sensor networks. , 0, , .		11
100	An authenticated group key agreement for wireless networks. , 0, , .		3
101	Novel wireless location approach for W-CDMA systems based on multiple sliding correlators. , 0, , .		1