

Iickho Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

1,224
citations

19
h-index

28
g-index

229
ext. papers

1,582
ext. citations

4
avg, IF

4.3
L-index

#	Paper	IF	Citations
152	Normal Random Vectors 2022 , 337-414		
151	Spectrum sensing for cognitive radio network with multiple receive antennas under impulsive noise environments. <i>Journal of Communications and Networks</i> , 2021 , 23, 171-179	4.1	0
150	Differential Evolution With Opposition and Redirection for Source Localization Using RSS Measurements in Wireless Sensor Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 1736-1747	4.9	8
149	. <i>IEEE Access</i> , 2020 , 8, 27874-27886	3.5	9
148	A Unified Decision Scheme for Classification and Localization of Cable Faults. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2020 , E103.A, 865-871	0.4	1
147	. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 728-737	6.8	7
146	Explicit formulae and implication of the expected values of some nonlinear statistics of tri-variate Gaussian variables. <i>Journal of the Korean Statistical Society</i> , 2020 , 49, 117-138	0.5	1
145	Fast Localization With Unknown Transmit Power and Path-Loss Exponent in WSNs Based on RSS Measurements. <i>IEEE Communications Letters</i> , 2020 , 24, 2756-2760	3.8	9
144	Order statistics and recursive updating with aging factor for cooperative cognitive radio networks under SSDF attacks. <i>ICT Express</i> , 2020 , 6, 3-6	4.9	4
143	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 57-69	3.7	2
142	Beamforming and Resource Allocation for a Multi-Pair Wireless Powered Two-Way Relay Network With Fairness. <i>IEEE Access</i> , 2019 , 7, 2799-2810	3.5	3
141	On the Identification and Generation of Discrete-Time Chaotic Systems with Recurrent Neural Networks. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 1699-1706	1.4	1
140	Full-Duplex Cooperative Cognitive Radio Networks with Simultaneous Transmit and Receive Antennas in MIMO Channels. <i>IEICE Transactions on Communications</i> , 2018 , E101.B, 1903-1915	0.5	
139	. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 1579-1592	9.6	64
138	Selection-based detectors and fusion centers for cooperative cognitive radio networks in heavy-tailed noise environment. <i>Journal of Communications and Networks</i> , 2017 , 19, 259-269	4.1	2
137	A computationally efficient scheme for feature extraction with kernel discriminant analysis. <i>Pattern Recognition</i> , 2016 , 50, 45-55	7.7	19
136	A frequency-sharing weather radar network system using pulse compression and sidelobe suppression. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2016 , 2016,	3.2	3

135	Effect of simultaneous transmit and receive antennas on cooperative cognitive radio networks 2016,		2
134	Full-duplex communication in cooperative cognitive radio networks: Preliminary results 2016,		1
133	On Full-Duplex Communication in Cooperative Cognitive Radio Networks 2016,		1
132	Explicit formulae for product moments of multivariate Gaussian random variables. <i>Statistics and Probability Letters</i> , 2015 , 100, 27-34	0.6	9
131	. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 5031-5041	6.8	3
130	. <i>IEEE Transactions on Communications</i> , 2014 , 62, 2236-2248	6.9	6
129	. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5521-5534	9.6	3
128	. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 6968-6981	9.6	8
127	A hopping phase estimator for frequency hopped FM/BFSK signals 2014,		1
126	Power Signal Recognition with High Order Moment Features for Non-Intrusive Load Monitoring. <i>The Journal of Korean Institute of Communications and Information Sciences</i> , 2014 , 39C, 608-614	0.5	2
125	Channel estimation and optimal training with the LMMSE criterion for OFDM-based two-way relay networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013 , 2013,	3.2	6
124	Spectrum Sensing with Receive Diversity for Cognitive Radio Operating over Wideband Channel 2013,		1
123	Joint Relay Selection and Power Allocation for Two-Way Relaying with Physical Layer Network Coding. <i>IEEE Communications Letters</i> , 2013 , 17, 301-304	3.8	31
122	On the sums of probability functions of order statistics. <i>Journal of the Korean Statistical Society</i> , 2013 , 42, 257-265	0.5	3
121	. <i>IEEE Transactions on Communications</i> , 2013 , 61, 4448-4461	6.9	17
120	Likelihood ratio test for wideband spectrum sensing 2013,		2
119	Asymptotic Value of the Probability That the First Order Statistic Is from Null Hypothesis. <i>Applied Mathematics</i> , 2013 , 04, 1702-1705	0.4	1
118	Cancellation of Correlation Side-Peaks for Unambiguous BOC Signal Tracking. <i>IEEE Communications Letters</i> , 2012 , 16, 569-572	3.8	30

117	Outage-Optimal Allocation of Relay Power for Analog Network Coding with Three Transmission Phases. <i>IEEE Communications Letters</i> , 2012 , 16, 838-841	3.8	19
116	Complexity reduction of kernel discriminant analysis 2012 ,		1
115	Cooperative spectrum sensing based on generalized likelihood ratio test under impulsive noise circumstances 2012 ,		2
114	Complexity-reduced scheme for feature extraction with linear discriminant analysis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1003-9	10.3	14
113	Robust estimators for frequency offset of OFDM in non-Gaussian noise. <i>IEICE Electronics Express</i> , 2011 , 8, 1412-1418	0.5	1
112	A two-stage acquisition scheme based on multiple correlator outputs for UWB signals. <i>IEICE Electronics Express</i> , 2011 , 8, 436-442	0.5	2
111	. <i>Journal of Communications and Networks</i> , 2011 , 13, 250-256	4.1	5
110	Decoding With Hypothesis Testing: A Near ML Decoding Scheme for MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 1251-1257	6.8	2
109	. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 782-791	9.6	5
108	Identification of finite state automata with a class of recurrent neural networks. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1408-21		16
107	Reduction of PAPR without Side Information for Frequency Switched Transmit Diversity-Based MIMO-OFDM Systems. <i>IEEE Communications Letters</i> , 2010 , 14, 1116-1118	3.8	3
106	Cross-layer design of multiple antenna multicast combining AMC with truncated HARQ. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2010 , 65, 803-815	2	
105	. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 4322-4339	6.8	28
104	Combining of Cyclically Delayed Signals: A Low-Complexity Scheme for PAPR Reduction in OFDM Systems. <i>IEEE Transactions on Broadcasting</i> , 2010 , 56, 577-583	4.7	11
103	Analysis of Intersymbol Interference due to Overlap in DM-BPSK. <i>IEICE Transactions on Communications</i> , 2010 , E93-B, 1310-1312	0.5	1
102	Improved Subset Difference Method with Ternary Tree. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2010 , E93-A, 2034-2044	0.4	
101	Sequential Locally Optimum Test (SLOT): A Sequential Detection Scheme Based on Locally Optimum Test Statistic. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2010 , E93-A, 2045-2056	0.4	
100	Achievable Rate of Adaptive Wireless Multicast with Antenna Diversity in Nakagami Fading Channels. <i>IEICE Transactions on Communications</i> , 2010 , E93-B, 2826-2829	0.5	

99	A Game Theoretic Power Control Algorithm with Sequential Subchannel Nulling for Wireless Networks. <i>IEICE Transactions on Communications</i> , 2010 , E93-B, 1649-1652	0.5	1
98	. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 1797-1803	6.8	4
97	Decoding With Expected Length and Threshold Approximated (DELTA): A Near-ML Scheme for Multiple-Input Multiple-Output Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 3234-3246	6.8	5
96	A spectrum-based searching technique for the most favorable section of digital music. <i>IEEE Transactions on Consumer Electronics</i> , 2009 , 55, 2122-2126	4.8	
95	Symbol error rate of the dm-mpsk under the influence of jamming signals. <i>IEEE Communications Letters</i> , 2009 , 13, 468-470	3.8	4
94	Multi-Cell MIMO Cooperation for OFDM-Based Broadcast Services and Its Outage Probability. <i>IEICE Transactions on Communications</i> , 2009 , E92-B, 1039-1042	0.5	
93	Breadth-First Signal Decoder: A Novel Maximum-Likelihood Scheme for Multi-Input Multi-Output Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 1576-1584	6.8	21
92	Locally Optimum Detection of Signals in Multiplicative and First-Order Markov Additive Noises. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 219-234	2.8	8
91	Fractional Bandwidth Mode Detection and Synchronization for OFDM-Based Cognitive Radio Systems. <i>IEEE Vehicular Technology Conference</i> , 2008 ,	0.1	4
90	A New Pilot-Aided Integer Frequency Offset Estimation Method for Digital Video Broadcasting (DVB) Systems. <i>International Conference on Advanced Communication Technology</i> , 2008 ,		2
89	. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 126-133	6.8	9
88	Noncoherent Constant False-Alarm Rate Schemes With Receive Diversity for Code Acquisition Under Homogeneous and Nonhomogeneous Fading Circumstances. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 2108-2120	6.8	6
87	An ML Decoding Algorithm with Reduced Complexity for Multi-Input Multi-Output Systems 2007 ,		2
86	A Comparative Analysis of Optimum and Suboptimum Rake Receivers in Impulsive UWB Environment. <i>IEEE Transactions on Vehicular Technology</i> , 2006 , 55, 1797-1804	6.8	19
85	Explicit correlation coefficients among random variables, ranks, and magnitude ranks. <i>IEEE Transactions on Information Theory</i> , 2006 , 52, 2233-2240	2.8	3
84	A novel PAPR reduction scheme for OFDM systems: selective mapping of partial tones (SMOPT). <i>IEEE Transactions on Consumer Electronics</i> , 2006 , 52, 40-43	4.8	34
83	Noncoherent sequential code acquisition based on simplified maximum likelihood ratios. <i>Signal Processing</i> , 2005 , 85, 1563-1571	4.4	
82	Difference threshold test for M-FSK signaling with Reed-Solomon coding and diversity combining in Rayleigh fading channels. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 977-982	6.8	3

81	A truncated adaptive transmission scheme for hybrid multicarrier CDMA/FDM systems in forward link. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 967-976	6.8	5
80	A novel detection criterion for weak m-ary signals and its application to ultrawideband multiple access systems. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 2024-2036	6.8	3
79	A Novel Blind Equalizer Based on Dual-Mode MCMA and DD Algorithm. <i>Lecture Notes in Computer Science</i> , 2005 , 711-722	0.9	1
78	Rapid acquisition of PN sequences with a new decision logic. <i>IEEE Transactions on Vehicular Technology</i> , 2004 , 53, 49-60	6.8	3
77	Code acquisition for DS/SS communications in non-Gaussian impulsive channels. <i>IEEE Transactions on Communications</i> , 2004 , 52, 187-190	6.9	17
76	A selective and adaptive interference cancellation scheme for code division multiple access systems. <i>Signal Processing</i> , 2003 , 83, 259-273	4.4	2
75	Low-complexity estimation of 2D DOA for coherently distributed sources. <i>Signal Processing</i> , 2003 , 83, 1789-1802	4.4	53
74	A new polyphase sequence with perfect even and good odd cross-correlation functions for DS/CDMA systems. <i>IEEE Transactions on Vehicular Technology</i> , 2002 , 51, 855-866	6.8	10
73	Nonparametric PN code acquisition using the signed-rank statistic for DS/CDMA systems in frequency-selective Rician fading channels. <i>IEEE Transactions on Vehicular Technology</i> , 2002 , 51, 1138-1144	6.8	6
72	DS/SS code acquisition with joint detection of multiple correct cells using locally optimum test statistics in Rayleigh fading channels. <i>Signal Processing</i> , 2002 , 82, 609-623	4.4	2
71	Seed accumulating sequential estimation for PN sequence acquisition at low signal-to-noise ratio. <i>Signal Processing</i> , 2002 , 82, 1795-1799	4.4	6
70	DS/CDMA signature sequences based on PR-QMF banks. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 3043-3054	4.8	2
69	Optimal and suboptimal decision rules for parallel code acquisition in chip-asynchronous DS/SS systems. <i>IEEE Signal Processing Letters</i> , 2002 , 9, 189-192	3.2	
68	Advanced Theory of Signal Detection. <i>Signals and Communication Technology</i> , 2002 ,	0.5	47
67	A statistical analysis of random polyphase signature sequences in multipath fading DS-CDMA channels. <i>Signal Processing</i> , 2001 , 81, 2461-2477	4.4	0
66	Analysis of an adaptive rate convolutionally coded multicarrier DS/CDMA system. <i>IEEE Transactions on Vehicular Technology</i> , 2001 , 50, 1014-1023	6.8	1
65	PN code acquisition using signed-rank-based nonparametric detectors in DS/SS systems. <i>IEEE Transactions on Vehicular Technology</i> , 2001 , 50, 1151-1157	6.8	5
64	An efficient frequency offset estimator for OFDM systems and its performance characteristics. <i>IEEE Transactions on Vehicular Technology</i> , 2001 , 50, 1307-1312	6.8	40

63	Performance of a turbo coded multicarrier DS/CDMA system with nonuniform repetition coding. <i>IEEE Journal on Selected Areas in Communications</i> , 2001 , 19, 1764-1774	14.2	2
62	On the generation and analysis of a modulated orthogonal sequence. <i>Signal Processing</i> , 2000 , 80, 451-464	4.4	4
61	PN code acquisition using nonparametric detectors in DS/CDMA systems. <i>Signal Processing</i> , 2000 , 80, 731-736	4.4	6
60	Multiple-access interference reduction for QS-CDMA systems with a novel class of polyphase sequences. <i>IEEE Transactions on Information Theory</i> , 2000 , 46, 1448-1458	2.8	22
59	A multiuser receiver for trellis-coded DS/CDMA systems in asynchronous channels. <i>IEEE Transactions on Vehicular Technology</i> , 2000 , 49, 844-855	6.8	4
58	Design and performance analysis of a convolutionally coded overlapping multicarrier DS/CDMA system. <i>IEEE Transactions on Vehicular Technology</i> , 2000 , 49, 1950-1967	6.8	5
57	A DS-CDMA code acquisition scheme robust to residual code phase offset variation. <i>IEEE Transactions on Vehicular Technology</i> , 2000 , 49, 2405-2418	6.8	9
56	. <i>IEEE Antennas and Propagation Magazine</i> , 2000 , 42, 64-67	1.7	17
55	Performance analysis of forward link beamforming techniques for DS/CDMA systems using base station antenna arrays. <i>IEEE Transactions on Signal Processing</i> , 2000 , 48, 862-865	4.8	4
54	Locally optimum detector for correlated random signals in a weakly dependent noise model. <i>Signal Processing</i> , 1999 , 74, 317-322	4.4	4
53	An efficient implementation of the D-homomorphism for generation of de Bruijn sequences. <i>IEEE Transactions on Information Theory</i> , 1999 , 45, 1280-1283	2.8	20
52	Design and analysis of concatenated coded DS/CDMA systems in asynchronous channels. <i>IEEE Transactions on Vehicular Technology</i> , 1999 , 48, 1421-1427	6.8	5
51	A multicarrier CDMA system with adaptive subchannel allocation for forward links. <i>IEEE Transactions on Vehicular Technology</i> , 1999 , 48, 1428-1436	6.8	25
50	Performance analysis of a coded OFDM system in time-varying multipath Rayleigh fading channels. <i>IEEE Transactions on Vehicular Technology</i> , 1999 , 48, 1610-1615	6.8	59
49	Analysis of quasi-ML multiuser detection of DS/CDMA systems in asynchronous channels. <i>IEEE Transactions on Communications</i> , 1999 , 47, 1875-1883	6.9	3
48	Evaluation of the optimum tilt angles for elevation-scanned phased-array radars. <i>IEEE Transactions on Antennas and Propagation</i> , 1999 , 47, 214-215	4.9	1
47	Analysis and performance comparison of the trellis coded and convolutional coded DS/SSMA systems in impulsive noise environment. <i>IET Communications</i> , 1998 , 145, 283		4
46	Performance of DS/SSMA systems using TCM under impulsive noise environment. <i>Signal Processing</i> , 1998 , 64, 225-230	4.4	

45	The DS/SSMA systems using trellis coding with asymmetric PSK signal constellation. <i>Signal Processing</i> , 1998 , 67, 173-187	4.4	3
44	An analysis of the median-shift sign detector under various noise distributions. <i>Signal Processing</i> , 1998 , 69, 281-297	4.4	5
43	An optimum control strategy of channel input traffic in FH/SSMA systems with central controllers. <i>Signal Processing</i> , 1998 , 70, 43-51	4.4	
42	Distributed source modeling and direction-of-arrival estimation techniques. <i>IEEE Transactions on Signal Processing</i> , 1997 , 45, 960-969	4.8	39
41	Some convergence properties of Godard's quartic algorithm. <i>Signal Processing</i> , 1997 , 56, 313-320	4.4	
40	Maximum length cellular automaton sequences and its application. <i>Signal Processing</i> , 1997 , 56, 199-203	4.4	6
39	Asymptotic performance of a user detection scheme in Nakagami interference. <i>Signal Processing</i> , 1997 , 59, 341-349	4.4	1
38	Rank-based detection of weak random signals in a multiplicative noise model. <i>Signal Processing</i> , 1997 , 63, 121-131	4.4	12
37	On rank-based non-parametric detection of composite signals in purely additive noise. <i>Signal Processing</i> , 1997 , 62, 257-264	4.4	3
36	Nonparametric detection of known signals based on ranks in multiplicative noise. <i>Signal Processing</i> , 1997 , 60, 255-261	4.4	7
35	Adaptive code rate change for maximum throughput in DS-SSMA communication systems. <i>Signal Processing</i> , 1996 , 51, 201-214	4.4	3
34	Nonparametric detection of known and random signals based on zero-crossings. <i>Signal Processing</i> , 1996 , 52, 75-82	4.4	3
33	A known-signal detector based on ranks in weakly dependent noise. <i>Signal Processing</i> , 1996 , 54, 309-314	4.4	4
32	Performance characteristics of the fuzzy sign detector. <i>Fuzzy Sets and Systems</i> , 1995 , 74, 195-205	3.7	3
31	Performance analysis of FHSS BFSK systems with nonlinear detectors in selective fading impulsive noise environment. <i>Signal Processing</i> , 1995 , 45, 275-292	4.4	2
30	. <i>IEEE Transactions on Signal Processing</i> , 1995 , 43, 2018-2022	4.8	14
29	. <i>IEEE Transactions on Information Theory</i> , 1995 , 41, 842-846	2.8	1
28	Comparison of known signal detection schemes under a weakly dependent noise model. <i>IET Computer Vision</i> , 1994 , 141, 303		4

27	. <i>IEEE Transactions on Signal Processing</i> , 1994 , 42, 462-466	4.8	1
26	Modification of the reference signal for fast convergence in LMS-based adaptive equalizers. <i>IEEE Transactions on Consumer Electronics</i> , 1994 , 40, 645-654	4.8	3
25	. <i>IEEE Signal Processing Letters</i> , 1994 , 1, 196-198	3.2	14
24	. <i>IEEE Transactions on Signal Processing</i> , 1993 , 41, 985-988	4.8	6
23	A combined determination-estimation method for direction of arrival estimation. <i>Signal Processing</i> , 1993 , 30, 123-131	4.4	3
22	Statistical characteristics and performance analysis of locally optimum fuzzy detector for known signals. <i>Signal Processing</i> , 1993 , 33, 259-268	4.4	4
21	A statistical analysis of MUSIC null-spectrum via decomposition of estimation error. <i>Signal Processing</i> , 1993 , 34, 179-192	4.4	2
20	On estimating the direction of arrival when the number of signal sources is unknown. <i>Signal Processing</i> , 1993 , 34, 193-205	4.4	11
19	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1993 , 23, 1474-1481		7
18	A fuzzy decision problem based on the generalized Neyman-Pearson criterion. <i>Fuzzy Sets and Systems</i> , 1992 , 47, 65-75	3.7	24
17	A fuzzy set theoretic approach to weak known-signal detection. <i>Signal Processing</i> , 1992 , 28, 183-194	4.4	5
16	. <i>IEEE Transactions on Information Theory</i> , 1992 , 38, 1311-1322	2.8	23
15	Detection of composite signals: Part II. Examples and performance comparison. <i>Signal Processing</i> , 1991 , 23, 299-312	4.4	2
14	Some root properties of recursive weighted median filters. <i>Signal Processing</i> , 1991 , 25, 337-344	4.4	5
13	Approximation of optimum quantizer-detector using a uniform quantizer and a coder. <i>Signal Processing</i> , 1991 , 25, 345-359	4.4	
12	Detection of composite signals: Part I. Locally optimum detector test statistics. <i>Signal Processing</i> , 1991 , 23, 79-88	4.4	6
11	. <i>IEEE Transactions on Information Theory</i> , 1990 , 36, 502-515	2.8	37
10	. <i>IEEE Transactions on Information Theory</i> , 1990 , 36, 516-530	2.8	18

9	A suboptimum quantization-detection scheme using input amplitude compression. <i>Signal Processing</i> , 1990 , 21, 315-321	4.4	3
8	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1989 , 37, 1359-1379		16
7	A recursive formula for even order harmonic series. <i>Journal of Computational and Applied Mathematics</i> , 1988 , 21, 251-256	2.4	17
6	A new noiseless coding technique for binary images. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1986 , 34, 944-951		7
5	An upper bound on run-length coding entropy. <i>Proceedings of the IEEE</i> , 1985 , 73, 1141-1142	14.3	2
4	Locally optimum user detection in Nakagami interference		1
3	Suboptimum multiuser detection of the QS-CDMA systems using antenna array		1
2	Rank-based detection of random signals in a weakly dependent noise model		1
1	A coded OFDM system for time-varying multipath Rayleigh fading environment		1