

# Sooyong Choi

## List of Publications by Year in descending order

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97  
papers

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516561

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501076

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97  
all docs

97  
docs citations

97  
times ranked

1189  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning based Beam Selection for Wide Beam Sweeping System. , 2022, , .		0
2	RSRP-Based Doppler Shift Estimator Using Machine Learning in High-Speed Train Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 371-380.	3.9	14
3	Cooperative Inference of DNNs Over Noisy Wireless Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 8298-8303.	3.9	4
4	Performance Analysis of Large Intelligent Surfaces (LISs): Asymptotic Data Rate and Channel Hardening Effects. IEEE Transactions on Wireless Communications, 2020, 19, 2052-2065.	6.1	135
5	Partial Response Signaling for Circular Convolution Based Filter Bank Multi-Carrier System Adopting Quadrature Amplitude Modulation. IEEE Access, 2020, 8, 122791-122797.	2.6	1
6	SCLNR-Based Precoding Scheme for Multi-User MIMO SWIPT Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 12392-12395.	3.9	5
7	An ant colony optimization aided two-dimensional soft output viterbi algorithm detection scheme for holographic data storage systems. Japanese Journal of Applied Physics, 2019, 58, SKKD03.	0.8	1
8	Equalization scheme with misalignment estimation based on multi-layer perceptrons for holographic data storage systems. Japanese Journal of Applied Physics, 2019, 58, SKKD02.	0.8	1
9	Dispersed Signal Transmission and Reception Scheme for Full-Duplex Systems. IEEE Access, 2019, 7, 138771-138778.	2.6	2
10	CNN-based user selection in MIMO broadcasting channel. , 2019, , .		0
11	Reliability Analysis of Large Intelligent Surfaces (LISs): Rate Distribution and Outage Probability. IEEE Wireless Communications Letters, 2019, 8, 1662-1666.	3.2	61
12	Deep Autoencoder Based CSI Feedback With Feedback Errors and Feedback Delay in FDD Massive MIMO Systems. IEEE Wireless Communications Letters, 2019, 8, 833-836.	3.2	47
13	An Enhanced Tabu Search Based Receiver for Full-Spreading NOMA Systems. IEEE Access, 2019, 7, 159899-159917.	2.6	2
14	A Detection Scheme With TMR Estimation Based on Multi-Layer Perceptrons for Bit Patterned Media Recording. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	21
15	A New Link Adaptation Method to Mitigate SINR Mismatch in Ultra-Dense Small Cell LTE Networks. IEEE Transactions on Wireless Communications, 2018, 17, 1109-1122.	6.1	6
16	Scaling Laws of Optimal Training Lengths for TDD Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 7128-7142.	3.9	14
17	Effect of Unpredictable Interference on MU-MIMO Systems in HetNet. IEEE Access, 2018, 6, 28870-28876.	2.6	5
18	Statistical Beamforming Based on Effective Channel Gain for Spatially Correlated Massive MIMO Systems. IEEE Communications Letters, 2018, 22, 197-200.	2.5	4

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19	Time Spread-Windowed OFDM for Spectral Efficiency Improvement. IEEE Wireless Communications Letters, 2018, 7, 696-699.	3.2	14
20	Evaluation of Precoding Scheme for Multi-User MIMO SWIPT Systems. , 2018, , .		1
21	Spectrally Efficient QAM-FBMC System Using FTN Scheme with Block-Wise Interleaved Filters. , 2018, , .		3
22	A Low Overhead Feedback Scheme of Channel Covariance Matrix for Massive MIMO Systems. , 2018, , .		0
23	Initial Beam Selection Scheme Using Channel Correlation Matrix in mmWave Massive MIMO Systems. , 2018, , .		0
24	A New Filter-Bank Multicarrier System: The Linearly Processed FBMC System. IEEE Transactions on Wireless Communications, 2018, 17, 4888-4898.	6.1	32
25	Low Complexity Beam Searching Algorithm Using Asymptotic Property of Massive MIMO Systems. , 2018, , .		0
26	Achievable Rate Evaluation by System Level Simulation for mm Wave Based Backhaul Network Adopting in-Band Full-Duplex. , 2018, , .		1
27	Eigendecomposition-Based GFDM for Interference-Free Data Transmission and Pilot Insertion for Channel Estimation. IEEE Transactions on Wireless Communications, 2018, 17, 6931-6943.	6.1	19
28	Optimal power control for wireless power transfer system: A deterministic approach. , 2017, , .		1
29	System Level Simulation of mmWave Based Mobile Xhaul Networks. , 2017, , .		1
30	Partial pilot transmission for self-interference channel estimation in full-duplex MIMO systems. , 2017, , .		0
31	OSIC Scheme Based on Combined Post-Processing SINR for MIMO Systems with Retransmission. IEICE Transactions on Communications, 2016, E99.B, 732-738.	0.4	0
32	Subframe shift for full-duplex base station in TD-LTE systems. , 2016, , .		0
33	Synchronization Sequence Design for FBMC/OQAM Systems. IEEE Transactions on Wireless Communications, 2016, 15, 7199-7211.	6.1	19
34	Performance evaluation of heterogeneous networks with cell ID operation of small cell. , 2016, , .		1
35	A New Filter-Bank Multicarrier System With Two Prototype Filters for QAM Symbols Transmission and Reception. IEEE Transactions on Wireless Communications, 2016, 15, 5998-6009.	6.1	82
36	Antenna Ratio for Sum-Rate Maximization in Full-Duplex Large-Array Base Station With Half-Duplex Multiantenna Users. IEEE Transactions on Vehicular Technology, 2016, 65, 10168-10173.	3.9	13

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37	Performance of Symbol-Level Combining and Bit-Level Combining in MIMO Multiple ARQ Systems. IEEE Transactions on Communications, 2016, 64, 1517-1528.	4.9	11
38	Antenna ratio for sum-rate maximization in MU-MIMO with full-duplex large array BS. , 2015, , .		11
39	Link adaptation strategy for healthcare application on IEEE 802.15.4 WPANs. , 2015, , .		0
40	Spatial resource utilization to maximize uplink spectral efficiency in full-duplex massive MIMO. , 2015, , .		22
41	Impacts of sub hub on connectivity of IEEE 802.15.4 in healthcare environments. , 2015, , .		0
42	QR decomposition aided belief propagation detector for MIMO systems. Electronics Letters, 2015, 51, 873-874.	0.5	12
43	Multiuser CQI prediction based on quantization error feedback for massive MIMO systems. , 2015, , .		1
44	A new filter-bank multicarrier system for QAM signal transmission and reception. , 2014, , .		38
45	Performance evaluation of various small-cell deployment scenarios in small-cell networks. , 2014, , .		7
46	Load balancing based on dynamic overlay clustering. , 2014, , .		0
47	Performance analysis on the self-mixed interference cancellation in direct conversion receivers. IEEE Transactions on Consumer Electronics, 2013, 59, 310-315.	3.0	7
48	Cell-to-Cell Interference Compensation Schemes Using Reduced Symbol Pattern of Interfering Cells for MLC NAND Flash Memory. IEEE Transactions on Magnetics, 2013, 49, 2569-2573.	1.2	14
49	Optimal number of users in zero-forcing based multiuser MIMO systems with large number of antennas. Journal of Communications and Networks, 2013, 15, 362-369.	1.8	29
50	Pilot Power Ratio for Uplink Sum-Rate Maximization in Zero-Forcing Based MU-MIMO Systems with Large Number of Antennas. , 2013, , .		6
51	Self-mixed interference cancellation method in direct conversion receivers. , 2013, , .		1
52	Asymptotic Distribution of System Capacity in Multiuser MIMO Systems with Large Number of Antennas. , 2013, , .		11
53	Multi-mode precoding scheme based on interference channel in MIMO-based cognitive radio networks. , 2012, , .		1
54	Extended Detection for MIMO Systems with Partial Incremental Redundancy Based Hybrid ARQ. IEEE Transactions on Wireless Communications, 2012, 11, 3714-3722.	6.1	14

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55	Kalman-Based MIMO Receivers Using Gaussian Sum Approximations. , 2012, , .		0
56	Simplified Power Allocation Scheme for Cognitive Multi-Node Relay Networks. IEEE Transactions on Wireless Communications, 2012, 11, 2008-2012.	6.1	22
57	Low-complexity interference-aware single relay selection in multi-source multi-destination cooperative networks. , 2012, , .		4
58	Network massive MIMO for cell-boundary users: From a precoding normalization perspective. , 2012, , .		30
59	Joint Mode Selection and Power Allocation Scheme for Power-Efficient Device-to-Device (D2D) Communication. , 2012, , .		137
60	Channel Estimation and Interference Cancellation of Feedback Interference for DOCR in DVB-T System. IEEE Transactions on Broadcasting, 2012, 58, 87-97.	2.5	9
61	Effective Two-Dimensional Partial Response Maximum Likelihood Detection Scheme for Holographic Data Storage Systems. Japanese Journal of Applied Physics, 2012, 51, 08JB06.	0.8	7
62	Interference Minimization Approach to Precoding Scheme in MIMO-Based Cognitive Radio Networks. IEEE Communications Letters, 2011, 15, 789-791.	2.5	21
63	Line Encoding for Multiuser MIMO Downlink. IEEE Transactions on Vehicular Technology, 2011, 60, 734-739.	3.9	7
64	A Beamforming Codebook Restriction for Cross-Tier Interference Coordination in Two-Tier Femtocell Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 1651-1663.	3.9	40
65	Blind beamformer for constant modulus signals based on relevance vector machine. , 2011, , .		1
66	Iterative receiver based on Kalman filter. , 2011, , .		0
67	Low Complexity Multiple Relay Selection Scheme for Cognitive Relay Networks. , 2011, , .		9
68	2*2 OSIC Receiver for Hierarchical Constellation. IEICE Transactions on Communications, 2010, E93-B, 2458-2461.	0.4	0
69	A Group Shuffled BP decoding for punctured Low-Density Parity-Check codes. IEICE Electronics Express, 2010, 7, 1429-1434.	0.3	1
70	Continuous BP Decoding Algorithm for a Low-Density Parity-Check Coded Hybrid ARQ System. IEICE Transactions on Communications, 2010, E93-B, 993-996.	0.4	1
71	Throughput Analysis and Optimization of Sensing-Based Cognitive Radio Systems With Markovian Traffic. IEEE Transactions on Vehicular Technology, 2010, 59, 4163-4169.	3.9	24
72	Performance Evaluation of the Reed Solomon and Low Density Parity Check Codes for Blu-ray Disk Channels. Japanese Journal of Applied Physics, 2010, 49, 08KB02.	0.8	14

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73	Adaptive reduced multivariate polynomial equalizers for blu-ray disc channels. IEEE Transactions on Consumer Electronics, 2010, 56, 682-686.	3.0	1
74	Correction to "Adaptive reduced multivariate polynomial equalizers for blu-ray disc channels". IEEE Transactions on Consumer Electronics, 2010, 56, 2380-2381.	3.0	0
75	Blind Equalization Method Based on Sparse Bayesian Learning. IEEE Signal Processing Letters, 2009, 16, 315-318.	2.1	13
76	High recording density hard disk channel equalization using a bilinear recursive polynomial model. IEICE Electronics Express, 2009, 6, 1071-1076.	0.3	0
77	Blind Equalization Method Based on Sparse Bayesian Learning. IEEE Vehicular Technology Conference, 2008, , .	0.2	2
78	Sparse Bayesian Learning Approach to Adaptive Beamforming Assisted Receivers. IEEE Communications Letters, 2007, 11, 182-184.	2.5	4
79	RBF multiuser detector with channel estimation capability in a synchronous MC-CDMA system. IEEE Transactions on Neural Networks, 2001, 12, 1536-1539.	4.8	21
80	A hybrid structured neural network receiver in digital communication systems. , 2000, , .		5
81	Nonlinear multilayer combining techniques for Bayesian equalizers using the radial basis function network as a digital magnetic storage equalizer. IEEE Transactions on Magnetics, 1999, 35, 2319-2321.	1.2	10
82	BER computation of an MC-CDMA system with carrier frequency offset. , 1999, , .		12
83	A quadratic sigmoid neural equalizer for nonlinear digital magnetic recording channels. IEEE Communications Letters, 1998, 2, 263-265.	2.5	6
84	Performance of neural equalizers on partial erasure model. IEEE Transactions on Magnetics, 1997, 33, 2788-2790.	1.2	21
85	A decision feedback recurrent neural equalizer for digital communication. IEEE Transactions on Magnetics, 1997, 33, 2767-2769.	1.2	11
86	A decision feedback recurrent neural equalizer as an infinite impulse response filter. IEEE Transactions on Signal Processing, 1997, 45, 2851-2858.	3.2	35
87	Equalization techniques using a simplified bilinear recursive polynomial perceptron with decision feedback. , 0, , .		3
88	A multilayer feedforward neural network having N/4 nodes in two hidden layers. , 0, , .		0
89	A Decision Feedback Recurrent Neural Equalizer For Digital magnetic Recording Systems. , 0, , .		4
90	A complex version of a decision feedback recurrent neural equalizer as an infinite impulse response filter. , 0, , .		5

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91	Performance Of Neural Equalizers On Partial Erasure Model. , 0, , .		0
92	Effect of carrier frequency offset on the performance of an MC-CDMA system and its countermeasure using pulse shaping. , 0, , .		8
93	A suboptimal Bayesian equalizer using an nonlinear multilayer combiner. , 0, , .		2
94	Performance of MC-CDMA systems in non-independent Rayleigh fading. , 0, , .		21
95	Performance of RBF equalizer in data storage channels. , 0, , .		2
96	Adaptive error constrained LMS algorithms and its blind equalization method. , 0, , .		2
97	A simplified multiuser receiver of DS-CDMA system. , 0, , .		2