

# Kyungwhoon Cheun

## List of Publications by Year in descending order

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60  
papers

783  
citations

623734

14  
h-index

580821

25  
g-index

60  
all docs

60  
docs citations

60  
times ranked

489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coverage analysis of downlink cellular orthogonal frequency-division multiple-access networks using moment generating functions. IET Communications, 2016, 10, 24-33.	2.2	0
2	Low-latency low-complexity heap-based extended min-sum algorithms for non-binary low-density parity-check codes. IET Communications, 2015, 9, 1191-1198.	2.2	2
3	Performance of multitone-frequency and quadrature-amplitude modulation over Rayleigh fading channels. IET Communications, 2015, 9, 1774-1780.	2.2	2
4	A modulation technique for active interference design under downlink cellular OFDMA networks. , 2014, , .		1
5	Frequency and Quadrature-Amplitude Modulation for Downlink Cellular OFDMA Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 1256-1267.	14.0	38
6	Mobile's millimeter-wave makeover. IEEE Spectrum, 2014, 51, 34-58.	0.7	60
7	Performance of M-ary turbo coded synchronous FHSS multiple access networks with noncoherent MFSK under Rayleigh fading channels. Journal of Communications and Networks, 2013, 15, 601-605.	2.6	4
8	FQAM : A modulation scheme for beyond 4G cellular wireless communication systems. , 2013, , .		16
9	An efficient sliding window algorithm using adaptive-length guard window for turbo decoders. Journal of Communications and Networks, 2012, 14, 195-198.	2.6	6
10	Noncoherent unitary space-time modulated DSSS systems in multipath channels. Journal of Communications and Networks, 2012, 14, 206-212.	2.6	1
11	A Statistical Inter-Cell Interference Model for Uplink Cellular OFDMA Networks Under Log-Normal Shadowing and Rayleigh Fading. IEEE Communications Letters, 2012, 16, 824-827.	4.1	6
12	A Systematic Granulized Piecewise Linear Approximation to the Jacobian Logarithm. IEEE Transactions on Communications, 2012, 60, 2382-2386.	7.8	1
13	An efficient two-step approach to integer frequency offset detection for OFDM systems. Signal Processing, 2012, 92, 698-704.	3.7	1
14	Iterative Receivers Based on Subblock Processing for Phase Noise Compensation in OFDM Systems. IEEE Transactions on Communications, 2011, 59, 792-802.	7.8	24
15	Performance of Soft Decision Decoded Synchronous FHSS Multiple Access Networks Using MFSK Modulation under Rayleigh Fading. IEEE Transactions on Communications, 2011, 59, 1066-1077.	7.8	11
16	Design of Turbo Codes over GF(q) with q-ary Orthogonal Modulation. IEEE Transactions on Communications, 2011, 59, 625-631.	7.8	7
17	Performance of Weighted Nonbinary Repeat-Accumulate Codes over GF(q) with q-ary Orthogonal Modulation. IEEE Transactions on Communications, 2011, 59, 1208-1212.	7.8	5
18	Unitary space-time constellations based on quasi-orthogonal sequences. IEEE Transactions on Communications, 2010, 58, 35-39.	7.8	7

#	ARTICLE	IF	CITATIONS
19	A Statistical Inter-Cell Interference Model for Downlink Cellular OFDMA Networks Under Log-Normal Shadowing with Ricean Fading. IEEE Communications Letters, 2010, 14, 1011-1013.	4.1	11
20	A statistical inter-cell interference model for downlink cellular OFDMA networks under log-normal shadowing and multipath Rayleigh fading. IEEE Transactions on Communications, 2009, 57, 3069-3077.	7.8	59
21	Improving the performance of SM-MIMO/BICM-ID systems with LLR distribution matching. IEEE Transactions on Communications, 2009, 57, 3239-3243.	7.8	6
22	A Reduced-Complexity Tree Search Detection Algorithm for MIMO Systems. IEEE Transactions on Signal Processing, 2009, 57, 2420-2424.	5.3	7
23	An efficient decoding algorithm for QO-STBCs based on iterative interference cancellation. IEEE Communications Letters, 2008, 12, 292-294.	4.1	6
24	Reduced Complexity Decoding Algorithm for Quasi-Orthogonal Space-Time Block Codes. , 2006, , .		0
25	Symbol Timing Synchronization Algorithm for Wireless LAN Systems in Multipath Channels. , 2006, , .		2
26	Maximum-Likelihood Symbol Timing Estimation Algorithm for OFDM Systems Based on a Repeated Preamble. , 2006, , .		1
27	Generalization of the $\hat{\lambda}/\text{sub } 0/\text{-rank}$ criteria for space-time codes. IEEE Communications Letters, 2006, 10, 257-259.	4.1	0
28	Symbol Timing Estimation Algorithm for OFDM Systems with a Preamble Consisting Two Identical Parts Based on the Maximum-Likelihood Principle. , 2006, , .		0
29	Improved Decoding Algorithms for Quasi-Orthogonal Space-Time Block Codes. , 2006, , .		0
30	Modified RA codes suitable for BPSK modulated systems with non-data-aided carrier recovery. , 2005, , .		0
31	Maximum Throughput of FHSS Multiple-Access Networks Using MFSK Modulation. IEEE Transactions on Communications, 2004, 52, 426-434.	7.8	25
32	Non-data-aided spectral-line method for fine carrier frequency synchronization in OFDM receivers. Journal of Communications and Networks, 2004, 6, 112-122.	2.6	3
33	Low Complexity Implementation of Alamouti Space-Time Coded OFDM Transmitters. IEEE Communications Letters, 2004, 8, 229-231.	4.1	14
34	A novel frequency-hopping spread-spectrum multiple-access network using M -ary orthogonal walsh sequence keying. IEEE Transactions on Communications, 2003, 51, 1885-1896.	7.8	10
35	Design of concatenated space-time block codes using signal space diversity and the Alamouti scheme. IEEE Communications Letters, 2003, 7, 329-331.	4.1	13
36	Design of concatenated space-time block codes using signal space diversity and the Alamouti scheme. , 2003, , .		0

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37	Coarse symbol synchronization algorithms for OFDM systems in multipath channels. IEEE Communications Letters, 2002, 6, 446-448.	4.1	80
38	Adaptive PN code acquisition using instantaneous power-scaled detection threshold under Rayleigh fading and pulsed Gaussian noise jamming. IEEE Transactions on Communications, 2002, 50, 1232-1235.	7.8	36
39	Joint decoding and carrier phase recovery algorithm for turbo codes. IEEE Communications Letters, 2001, 5, 375-377.	4.1	53
40	Performance of asynchronous FHSS-MA networks under Rayleigh fading and tone jamming. IEEE Transactions on Communications, 2001, 49, 405-408.	7.8	9
41	Performance of asynchronous slow frequency-hop multiple-access networks with MFSK modulation. IEEE Transactions on Communications, 2000, 48, 298-307.	7.8	22
42	Turbo decoder. IEEE Communications Letters, 2000, 4, 255-257.	4.1	4
43	A novel U-turn counting hangup detection algorithm for SDPSK modulation. IEEE Communications Letters, 2000, 4, 173-175.	4.1	0
44	Convergence analysis of the stop-and-go blind equalization algorithm. IEEE Transactions on Communications, 1999, 47, 177-180.	7.8	4
45	Antijamming performance of a multicarrier direct-sequence spread-spectrum system. IEEE Transactions on Communications, 1999, 47, 1781-1784.	7.8	29
46	Joint delay-power capture in spread-spectrum packet radio networks. IEEE Transactions on Communications, 1998, 46, 450-453.	7.8	16
47	Design And Implementation Of A Wideband CDMA modem. , 1997, , .		0
48	A New Symbol Timing Recovery Algorithm For OFDM Systems. , 1997, , .		0
49	Design and Implementation Of A Grand Alliance HDVT Receiver Prototype. , 1997, , .		1
50	Performance of the limiter-discriminator-integrator detector in frequency-hop spread-spectrum multiple-access networks. IEEE Communications Letters, 1997, 1, 121-123.	4.1	3
51	Design and implementation of a Grand Alliance HDTV receiver prototype. IEEE Transactions on Consumer Electronics, 1997, 43, 755-760.	3.6	2
52	An MMSE fine carrier frequency synchronization algorithm for OFDM systems. IEEE Transactions on Consumer Electronics, 1997, 43, 761-766.	3.6	17
53	A new symbol timing recovery algorithm for OFDM systems. IEEE Transactions on Consumer Electronics, 1997, 43, 767-775.	3.6	36
54	Optimum arrival-time distribution for delay capture in spread-spectrum packet radio networks. IEEE Transactions on Vehicular Technology, 1997, 46, 981-991.	6.3	8

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55	Performance of direct-sequence spread-spectrum RAKE receivers with random spreading sequences. IEEE Transactions on Communications, 1997, 45, 1130-1143.	7.8	68
56	A hardware efficient phase/gain tracking loop for the Grand Alliance VSB HDTV receiver. IEEE Transactions on Consumer Electronics, 1996, 42, 632-639.	3.6	6
57	Low-complexity receiver algorithms for the Grand-Alliance VSB HDTV system. IEEE Transactions on Consumer Electronics, 1996, 42, 640-650.	3.6	4
58	Performance of FHSS multiple-access networks using MFSK modulation. IEEE Transactions on Communications, 1996, 44, 1514-1526.	7.8	34
59	A novel FHSS multiple-access network using M-ary orthogonal Walsh modulation. , 0, , .		2
60	Throughput and optimum parameters of FHMA system with multilevel FSK. , 0, , .		0