Joohwan Chun

List of Publications by Year
in descending order

104 papers	934 citations	687363 13 h-index	526287 27 g-index
104 all docs	104 docs citations	104 times ranked	752 citing authors

#	Article	IF	Citations
1	Experimental Results and Posterior Cramér–Rao Bound Analysis of EKF-Based Radar SLAM With Odometer Bias Compensation. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 310-324.	4.7	9
2	Ballistic Coefficient Estimation for Classification of Projectiles. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2021, 32, 66-74.	0.3	0
3	Virtual Array Response Vector for Angle Estimation of MIMO Radar With a Wide-Band Interleaved OFDM Signal. IEEE Communications Letters, 2021, 25, 1539-1543.	4.1	4
4	Centroid Angle Estimation for Multiple Unresolved Targets Using Frequency Diversity. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2021, 32, 584-587.	0.3	0
5	Doppler Signal Simulation on the Dispersion of Sub-Munition. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2021, 32, 616-625.	0.3	0
6	Target Positioning With Surveillance Radar by the Estimation of Atmospheric Refractivity Profile. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2245-2255.	4.7	7
7	Analysis of Optimal Range Sensor Placement for Tracking a Moving Target. IEEE Communications Letters, 2020, 24, 1700-1704.	4.1	11
8	A Fast Sequential MLE Algorithm for Jet Engine Classification With Radar. IEEE Sensors Journal, 2020, 20, 14157-14165.	4.7	3
9	Rotating Target Size and Rotation Vector Estimation in a Distributed Stepped Frequency Radar System. IEEE Sensors Journal, 2020, 20, 7189-7198.	4.7	1
10	Beam Scheduling Method of Shipborne Multifunction Radar Using Priority Queues. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2020, 31, 200-203.	0.3	1
11	Range-Doppler Map Formation and Angle Estimation of MIMO-OFDM Radar Based on CDM. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2020, 31, 426-436.	0.3	0
12	Monopulse Beam Synthesis Using a Sparse Single Layer of Weights. IEEE Transactions on Antennas and Propagation, 2019, 67, 2787-2791.	5.1	8
13	Weighted Two-Dimensional Root MUSIC for Joint Angle-Doppler Estimation With MIMO Radar. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 1474-1482.	4.7	23
14	Multipath angle estimation for low-flying target of multi-frequency shipborne radar. , 2019, , .		1
15	Forward-Looking Synthetic Inverse Scattering Image Formation for a Vehicle with Curved Motion Based on Time Domain Correlation. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2019, 30, 60-69.	0.3	2
16	Terminal Guidance for Aerial Vehicles through Nadir-Looking Image Formation Using an Imaging Radar with a Rotating Antenna. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2019, 30, 328-331.	0.3	0
17	Cramér-Rao Lower Bound of Multipath Angle Estimation for Low-Flying Target of Dual-Frequency Airborne Radar. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2019, 30, 373-379.	0.3	0
18	Cyclic block coordinate minimization algorithms for DOA estimation in co-prime arrays. Signal Processing, 2018, 145, 272-284.	3.7	2

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19	Efficient EKF-SLAM Algorithm Based on Measurement Clustering and Real Data Simulations. , 2018, , .		5
20	Target Tracking and Classification for Missile Using Interacting Multiple Model (IMM). , 2018, , .		6
21	Forward-looking super-resolution radar imaging via reweighted L1-minimization. , 2018, , .		3
22	Robust Cross-SCORE Algorithm Against Bit Transitions for GPS Interference Suppression. IEEE Communications Letters, 2017, 21, 1325-1328.	4.1	7
23	Millimeter-Wave(W-Band) Forward-Looking Super-Resolution Radar Imaging via Reweighted â„"1-Minimization. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2017, 28, 636-645.	0.3	4
24	Nonnegative gridless compressive sensing for co-prime arrays. , 2016, , .		1
25	Comparison of beamforming algorithms via worst-case SINR maximization. , 2016, , .		0
26	Super-resolution range estimation in FMCW radar system. , 2016, , .		2
27	Asymmetric Sum and Difference Beam Pattern Synthesis With a Common Weight Vector. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1622-1625.	4.0	24
28	A ray tracing simulation to visualize atmospheric effect on wave propagation using radiosonde information. , 2015, , .		1
29	Improvement of track-to-track fusion for dual-mode homing guidance with target-orientation measurements. Optical Engineering, 2015, 54, 103110.	1.0	2
30	A Stochastic CRB for Non-unitary Beam-space Transformations and its Application to Optimal Steering Angle Design. IEEE Signal Processing Letters, 2015, 22, 2014-2018.	3.6	4
31	Hyperbolic Localization in MIMO Radar Systems. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 618-621.	4.0	16
32	Radar target classification using the relevance vector machine. , 2014, , .		1
33	Adaptive beamforming for low-angle target tracking under multipath interference. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2564-2577.	4.7	34
34	Lattice Reduction-Aided Successive Interference Cancelation for MIMO Interference Channels. IEEE Transactions on Vehicular Technology, 2014, 63, 4131-4135.	6.3	4
35	The Schur Algorithm Applied to the One-Dimensional Continuous Inverse Scattering Problem. IEEE Transactions on Signal Processing, 2013, 61, 3311-3320.	5.3	2
36	Crossâ€relationâ€based frequencyâ€domain blind channel estimation with multiple antennas in orthogonal frequency division multiplexing systems. IET Communications, 2013, 7, 1753-1768.	2.2	0

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37	Efficient Lattice-Reduction-Aided Successive Interference Cancellation for Clustered Multiuser MIMO System. IEEE Transactions on Vehicular Technology, 2012, 61, 3643-3655.	6.3	7
38	An efficient algorithm for clustered integer least squares problems. Numerical Linear Algebra With Applications, 2012, 19, 19-30.	1.6	1
39	Lattice Reduction Aided MMSE Decision Feedback Equalizers. IEEE Transactions on Signal Processing, 2011, 59, 436-441.	5.3	7
40	Signal Space Alignment for an Encryption Message and Successive Network Code Decoding on the MIMO K-Way Relay Channel. , 2011, , .		14
41	Asymptotic Capacity of the Separated MIMO Two-Way Relay Channel. IEEE Transactions on Information Theory, 2011, 57, 7542-7554.	2.4	51
42	Degrees of Freedom of the MIMO Y Channel: Signal Space Alignment for Network Coding. IEEE Transactions on Information Theory, 2010, 56, 3332-3342.	2.4	200
43	Energy-Efficient Adaptive Transmission Scheme in a Correlated Wireless Sensor Network. , 2010, , .		2
44	Blind Calibration for a Linear Array With Gain and Phase Error Using Independent Component Analysis. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1259-1262.	4.0	45
45	Modified High-Order PAMs for Binary Coded Physical-Layer Network Coding. IEEE Communications Letters, 2010, 14, 689-691.	4.1	55
46	DTV receivers using an adaptive switched beamformer with an online-calibration algorithm. IEEE Transactions on Consumer Electronics, 2010, 56, 34-41.	3.6	2
47	A Two-Stage Antenna Subset Selection Scheme for Amplify-and-Forward MIMO Relay Systems. IEEE Signal Processing Letters, 2010, 17, 953-956.	3.6	9
48	Asymptotic capacity of the separated MIMO two-way relay channel with linear precoding. , 2010, , .		11
49	Reduced rank detection algorithms for distributed array sensors. , 2010, , .		0
50	Pilot-based non-adaptive equalizers using an array antenna for DTV receivers. IEEE Transactions on Consumer Electronics, 2009, 55, 42-48.	3.6	1
51	Capacity and performance of lattice reduction aided linear processing with lattice encoding and decoding in limited feedback systems. IEEE Journal on Selected Areas in Communications, 2008, 26, 1567-1577.	14.0	7
52	Frequency offset estimation for multi-static radar system. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
53	Linear Precoder and Decoder Design for Two-Way AF MIMO Relaying System. IEEE Vehicular Technology Conference, 2008, , .	0.4	35
54	Frequency diversity in multistatic radars. , 2008, , .		7

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55	Zero-forcing-based two-phase relaying with multiple mobile stations. , 2008, , .		12
56	Arbitrary footprint synthesis for planar array with finite bit control. , 2008, , .		0
57	Finite wordlength digital filter design using simulated annealing. , 2008, , .		3
58	Sidelobe suppressing beamforming using linearly constrained adaptive arrays for low angle tracking. , 2008, , .		2
59	Coordinated beamforming with reduced overhead for the downlink of multiuser MIMO systems. IEEE Communications Letters, 2008, 12, 810-812.	4.1	6
60	Network Coding with Linear MIMO Pre-Equalizer Using Modulo in Two-Way Channel. , 2008, , .		21
61	MMSE Based Preprocessing and Its Variations for Closest Point Search. , 2008, , .		2
62	Generalized Schur Decomposition-Based Two-Way Relaying for Wireless MIMO Systems. , 2008, , .		15
63	Lattice Reduction Aided Precoding Combined with SDM for Clusters of Correlated Users. , 2008, , .		2
64	Alternate Transmission Relaying Schemes for MIMO Wireless Networks. , 2008, , .		13
65	Orthogonal pulse compression code design for waveform iversity in multistatic radar systems. , 2008, , .		2
66	LR-Aided precoding with a modified LLL algorithm for limited feedback MIMO systems. , 2008, , .		0
67	Symbol detection in V-BLAST architectures under channel estimation errors. IEEE Transactions on Wireless Communications, 2007, 6, 593-597.	9.2	31
68	Discrete Suppression with &#x03A3;&#x0394;-STAP. , 2007, , .		0
69	Non-statistical transformed data domain stap algorithm for non-homogeneous environment. , 2007, , .		0
70	Optimal Lattice-Reduction Aided Successive Interference Cancellation for MIMO Systems. IEEE Transactions on Wireless Communications, 2007, 6, 2438-2443.	9.2	36
71	Vector sensor arrays in DOA estimation for the low angle tracking. , 2007, , .		4
72	A MIMO Antenna Structure that Combines Transmit Beamforming and Spatial Multiplexing. IEEE Transactions on Wireless Communications, 2007, 6, 775-779.	9.2	27

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73	ML Symbol Detection Based on the Shortest Path Algorithm for MIMO Systems. IEEE Transactions on Signal Processing, 2007, 55, 5477-5484.	5.3	26
74	Frequency-Offset Estimation for MIMO and OFDM Systems Using Orthogonal Training Sequences. IEEE Transactions on Vehicular Technology, 2007, 56, 146-156.	6.3	13
75	Modified V-BLAST Symbol Detection Under Channel Uncertainties for MIMO Systems. , 2006, , .		0
76	Optimum Vector Perturbation Minimizing Total MSE in Multiuser MIMO Downlink. , 2006, , .		17
77	Capacity Evaluation of Various Multiuser MIMO Schemes in Downlink Cellular Environments. , 2006, , .		16
78	The Schur algorithm applied to the design of optical multi-mirror structures. Numerical Linear Algebra With Applications, 2005, 12, 283-292.	1.6	7
79	Model-Based Angle-only Tracking of Known Aircraft Target Using Single Imaging Sensor. Transactions of the Japan Society for Aeronautical and Space Sciences, 2005, 47, 231-239.	0.7	1
80	Extracting 3-D parameters of an object from its 2-D images using the simulated annealing. , 2000, , .		0
81	A partial pivoting Schur-type algorithm for the factorization of matrices with the Jordan displacement structure. , 2000, , .		0
82	Satellite orbit determination using a magnetometer-based bootstrap filter. , 2000, , .		3
83	Extended target detection and tracking using the simultaneous attitude estimation. , 2000, , .		1
84	Convergence behavior of the Schur recursion in the Krein space for the J-spectral factorization. IEEE Transactions on Automatic Control, 2000, 45, 1899-1903.	5.7	2
85	Blind space-time minimum variance receiver for CDMA systems. , 0, , .		0
86	Bayesian bootstrap filtering for the LEO satellite orbit determination. , 0, , .		0
87	Mobile position location with the constrained bootstrap filter in a cellular communication system. , 0, , .		3
88	Equalization of the non-flat erbium gain spectrum using the multiport lattice filter model. , 0, , .		3
89	A self-calibration algorithm for an asynchronous CDMA-based antenna array. , 0, , .		0
90	Comparison of the channel equalizers using the inverse filter, the H/sup 2/ filter and the H/sup âˆ/ filter. , 0, , .		0

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91	An online calibration algorithm for the CDMA-based adaptive antenna array. , 0, , .		0
92	A subspace-based online calibration algorithm for an asynchronous CDMA-based antenna array. , 0, , .		4
93	Finding user position location using the Doppler information in satellite CDMA systems. , 0, , .		1
94	Angular distribution estimation of the arriving signal using a mechanically steered fixed beam antenna. , 0, , .		3
95	Updating the focusing matrix for the DOA estimation of moving sources. , 0, , .		2
96	Musical instruments recognition using hidden Markov model. , 0, , .		2
97	On the interference nulling operation of the V-BLAST under channel estimation errors. , 0, , .		3
98	A selection beamforming algorithm combined with the spatial equalizer for the VSB DTV receiver system. , 0, , .		0
99	MIMO structure which combines the spatial multiplexing and beamforming. , 0, , .		7
100	Carrier frequency recovery in MIMO and OFDM systems using orthogonal training sequences. , 0, , .		1
101	On the beamforming weight of the MIMO/SDMA system under channel uncertainty. , 0, , .		0
102	The multi-objective optimization of beam pattern in the nonuniform array antenna using the evolutionary algorithm. , 0, , .		0
103	Digital beamforming algorithms for the VSB DTV receiver system. , 0, , .		1
104	Symbol Detection Solving the Total Least Squares Problem Under Channel Uncertainties. , 0, , .		0