Teng Joon Lim

List of Publications by Year
in descending order

188 papers	9,049 citations	172207 29 h-index	85405 71 g-index
188 all docs	188 docs citations	188 times ranked	5987 citing authors

#	ARTICLE	IF	CITATIONS
1	DRiVe: Detecting Malicious Roadside Units in the Internet of Vehicles With Low Latency Data Integrity. IEEE Internet of Things Journal, 2022, 9, 3270-3281.	5.5	13
2	Machine learning-based early detection of IoT botnets using network-edge traffic. Computers and Security, 2022, 117, 102693.	4.0	21
3	PIC: Preserving Data Integrity in UAV Assisted Communication. , 2022, , .		0
4	Modeling and Analysis of HetNets With Interference Management Using Poisson Cluster Process. IEEE Transactions on Vehicular Technology, 2021, 70, 12039-12054.	3.9	9
5	Educating the Evolving Engineer: Lessons From the University of Sydney. IEEE Potentials, 2021, 40, 7-12.	0.2	0
6	The Future of Engineering Education. IEEE Potentials, 2021, 40, 4-6.	0.2	1
7	An Ellipsoidal Set-Membership Approach to Distributed Joint State and Sensor Fault Estimation of Autonomous Ground Vehicles. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1107-1118.	8.5	36
8	An Efficient Deep Neural Network Structure for RF Power Amplifier Linearization. , 2021, , .		2
9	Early Detection of Mirai-Like IoT Bots in Large-Scale Networks through Sub-sampled Packet Traffic Analysis. Lecture Notes in Networks and Systems, 2020, , 847-867.	0.5	13
10	A GLRT-Based Mechanism for Detecting Relay Misbehavior in Clustered IoT Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 435-446.	4.5	19
11	Malicious relay detection using sentinels: A stochastic geometry framework. Journal of Communications and Networks, 2020, 22, 303-315.	1.8	3
12	Optimal Byzantine Attacker Identification Based on Game Theory in Network Coding Enabled Wireless Ad Hoc Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 2570-2583.	4.5	7
13	Universal resource allocation framework for preventing pollution attacks in network-coded wireless mesh networks. Ad Hoc Networks, 2020, 99, 102073.	3.4	5
14	Iterative Learning Control For Pre-Distortion Design in Wideband Direct-Conversion Transmitters. , 2020, , .		2
15	Detecting Selective Forwarding using Sentinels in Clustered IoT Networks. , 2020, , .		3
16	ML-Based Early Detection of IoT Botnets. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 254-260.	0.2	2
17	EDIMA: Early Detection of IoT Malware Network Activity Using Machine Learning Techniques. , 2019, , .		86
18	Hybrid NOMA for an Energy Harvesting MAC With Non-Ideal Batteries and Circuit Power. IEEE Transactions on Wireless Communications, 2019, 18, 3961-3973.	6.1	11

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19	A Secure Contained Testbed for Analyzing IoT Botnets. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 124-137.	0.2	6
20	Detecting RSU Misbehavior in Vehicular Edge Computing. , 2019, , .		2
21	Sentinel based malicious relay detection in wireless IoT networks. Journal of Communications and Networks, 2019, 21, 458-468.	1.8	11
22	Detecting Selective Modification in Vehicular Edge Computing. , 2019, , .		1
23	Network Dimensioning, QoE Maximization, and Power Control for Multi-Tier Machine-Type Communications. IEEE Transactions on Communications, 2019, 67, 859-872.	4.9	10
24	Demand Response and Renewable Energy Management Using Continuous-Time Optimization. IEEE Transactions on Sustainable Energy, 2018, 9, 991-1000.	5.9	34
25	Constant Envelope Precoding for MIMO Systems. IEEE Transactions on Communications, 2018, 66, 149-162.	4.9	44
26	Cost-Aware Renewable Energy Management With Application in Cellular Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 316-326.	3.5	15
27	Energy Harvesting Communications Without Transmitter Channel State Information Using Layered Coding. IEEE Transactions on Green Communications and Networking, 2018, 2, 127-142.	3.5	7
28	Online Demand Response Strategies for Non-Deferrable Loads With Renewable Energy. IEEE Transactions on Smart Grid, 2018, 9, 5227-5235.	6.2	14
29	Sentinel Based Malicious Relay Detection Scheme for Wireless IoT Networks. , 2018, , .		8
30	Detecting Rogue Small-Cell Attacks Using Guard Nodes. , 2018, , .		1
31	Hybrid NOMA-TDMA for Multiple Access Channels with Non-Ideal Batteries and Circuit Cost. , 2018, , .		2
32	Detecting Forwarding Misbehavior In Clustered IoT Networks. , 2018, , .		8
33	Full-Duplex Relaying in Machine-Type Communications With a Multi-Antenna Base Station. IEEE Transactions on Wireless Communications, 2018, 17, 5804-5817.	6.1	7
34	An Intrusion Detection System for Detecting Compromised Gateways in Clustered IoT Networks. , 2018, , .		21
35	Dynamic Attack-Resilient Routing in Software Defined Networks. IEEE Transactions on Network and Service Management, 2018, 15, 1146-1160.	3.2	16
36	Heterogeneous access class barring with QoS guarantee in machine€type communications. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2959.	2.6	5

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37	Energy management strategies for base stations in a smart grid environment. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2861.	2.6	3
38	Relaying and Radio Resource Partitioning for Machine-Type Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1344-1356.	6.1	39
39	Placement Optimization of UAV-Mounted Mobile Base Stations. IEEE Communications Letters, 2017, 21, 604-607.	2.5	697
40	Constant envelope transmission in MISO system with adaptive online constellation. , 2017, , .		0
41	Network Dimensioning and Radio Resource Management for Multi-Tier Machine-Type Communications. , 2017, , .		2
42	Full-Duplex SIMO Relaying for Machine-Type Communications in Cellular Networks. , 2017, , .		3
43	Detecting Cluster Head Attacks in Heterogeneous Wireless Sensor Networks. , 2017, , .		6
44	Superposition Coding for Energy Harvesting Communication without CSIT. , 2017, , .		1
45	Energy Harvesting Communication Using Finite-Capacity Batteries With Internal Resistance. IEEE Transactions on Wireless Communications, 2017, 16, 2822-2834.	6.1	19
46	Throughput Maximization for Mobile Relaying Systems. , 2016, , .		22
47	Fragmentation-Based Multipath Routing for Attack Resilience in Software Defined Networks. , 2016, , .		5
48	Distortion minimization in energy harvesting sensor nodes with compression power constraints. , 2016, , .		7
49	Wireless communications with unmanned aerial vehicles: opportunities and challenges. , 2016, 54, 36-42.		2,711
50	Renewable energy management in cellular networks: An online strategy based on ARIMA forecasting and a Markov chain model. , 2016, , .		14
51	MISO Multicasting With Constant Envelope Precoding. IEEE Wireless Communications Letters, 2016, 5, 588-591.	3.2	16
52	Constant Envelope Precoding With Adaptive Receiver Constellation in MISO Fading Channel. IEEE Transactions on Wireless Communications, 2016, 15, 6871-6882.	6.1	13
53	Throughput Maximization for UAV-Enabled Mobile Relaying Systems. IEEE Transactions on Communications, 2016, 64, 4983-4996.	4.9	992
54	Receive beamforming optimization for MIMO system with constant envelope precoding. , 2016, , .		5

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55	Clustering and radio resource partitioning for machine-type communications in cellular networks. , 2016, , .		7
56	Battery-Aided Demand Response Strategy Under Continuous-Time Block Pricing. IEEE Transactions on Signal Processing, 2016, 64, 395-405.	3.2	16
57	Interference Management Through Exclusion Zones in Two-Tier Cognitive Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2292-2302.	6.1	29
58	Two-Way Relay Strategies With a Multiaccess Uplink and Queue Stability Constraints. IEEE Transactions on Vehicular Technology, 2016, 65, 8003-8013.	3.9	2
59	Constant Envelope Precoding with Adaptive Receiver Constellation in Fading Channel. , 2015, , .		0
60	Dual-Path Architecture for Energy Harvesting Transmitters with Battery Discharge Constraints. , 2015, , .		5
61	An evolutionary algorithm for energy management in cellular base stations under time-of-use pricing. , 2015, , .		1
62	Resource Partitioning and User Association With Sleep-Mode Base Stations in Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 3780-3793.	6.1	31
63	Capacity Region of MISO Broadcast Channel for Simultaneous Wireless Information and Power Transfer. IEEE Transactions on Communications, 2015, 63, 3856-3868.	4.9	29
64	Renewable-Powered Base Stations with Time-of-Use and Consumption-Based Block Pricing. , 2015, , .		1
65	Capacity region of MISO broadcast channel with SWIPT. , 2015, , .		2
66	Downlink and Uplink Energy Minimization Through User Association and Beamforming in C-RAN. IEEE Transactions on Wireless Communications, 2015, 14, 494-508.	6.1	189
67	FM passive bistatic radar imaging of airplanes in a real configuration. , 2014, , .		5
68	HAP-assisted LEO satellite downlink transmission: An energy harvesting perspective. , 2014, , .		1
69	Energy exchange among base stations in a Cellular Network through the Smart Grid. , 2014, , .		23
70	Massive MIMO with per-antenna power constraint. , 2014, , .		17
71	Channel-hopping on multiple channels for full rendezvous diversity in cognitive radio networks. , 2014, , .		7
72	Coordinated downlink and uplink user association and beamforming for energy minimizationincloud radio access network. , 2014, , .		2

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73	Joint Transmitter and Receiver Energy Minimization in Multiuser OFDM Systems. IEEE Transactions on Communications, 2014, 62, 3504-3516.	4.9	13
74	Fading Two-Way Relay Channels: Physical-Layer Versus Digital Network Coding. IEEE Transactions on Wireless Communications, 2014, 13, 6275-6285.	6.1	9
75	Dual-Path Architecture for Energy Harvesting Transmitters with Battery Discharge Constraints. , 2014, , .		0
76	Constant Envelope Precoding with Adaptive Receiver Constellation in Fading Channel. , 2014, , .		0
77	Designing femtocell exclusion zones to minimize power in a heterogeneous network. , 2014, , .		6
78	Digital Network Coding Aided Two-Way Relaying: Energy Minimization and Queue Analysis. IEEE Transactions on Wireless Communications, 2013, 12, 1947-1957.	6.1	29
79	Optimal Save-Then-Transmit Protocol for Energy Harvesting Wireless Transmitters. IEEE Transactions on Wireless Communications, 2013, 12, 1196-1207.	6.1	193
80	Online energy management strategies for base stations powered by the smart grid. , 2013, , .		26
81	Energy management strategies for base stations powered by the smart grid. , 2013, , .		13
82	Optimal power and range adaptation for green broadcasting. , 2013, , .		3
83	Energy optimization for stable two-way relaying with a multi-access uplink. , 2013, , .		4
84	Optimal Power and Range Adaptation for Green Broadcasting. IEEE Transactions on Wireless Communications, 2013, 12, 4592-4603.	6.1	34
85	Base station energy cooperation in green cellular networks. , 2013, , .		6
86	Two-way relay networks optimized for Rayleigh fading channels. , 2013, , .		2
87	Energy minimization in two-way relay networks with digital network coding. , 2012, , .		7
88	MIMO-OFDMA rate allocation and beamformer design using a multi-access channel framework. , 2012, , .		1
89	Optimal save-then-transmit protocol for energy harvesting wireless transmitters. , 2012, , .		21
90	Energy efficiency and queue stability in a two-way relay network. , 2012, , .		8

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91	Diversity analysis of an outage minimizing energy harvesting wireless protocol in Rayleigh fading. , 2012, , .		4
92	Performance Analysis of SC-FDMA in the Presence of Receiver Phase Noise. IEEE Transactions on Communications, 2012, 60, 3876-3885.	4.9	17
93	Performance analysis of SC-FDMA in the presence of receiver phase noise. , 2011, , .		0
94	Throughput-Sensing Tradeoff of Cognitive Radio Networks Based on Quickest Sensing. , 2011, , .		21
95	Mean-variance optimal linear precoders for random MISO broadcast channels. , 2011, , .		0
96	Multi-antenna based spectrum sensing for cognitive radios: A GLRT approach. IEEE Transactions on Communications, 2010, 58, 84-88.	4.9	342
97	Outage probability of MISO broadcast systems with noisy channel side information. , 2010, , .		0
98	MIMO Channel Estimation Using the Variational Expectation-Maximization Method. , 2010, , .		0
99	The Cross Rate: Linear Processing for the Two User Broadcast Channel. , 2010, , .		0
100	Blind Estimation of Common Phase Error in OFDM and OFDMA. , 2010, , .		7
101	Cooperative Spectrum Sensing in Cognitive Radios With Incomplete Likelihood Functions. IEEE Transactions on Signal Processing, 2010, 58, 3272-3281.	3.2	23
102	Mean Mutual Information Per Coded Bit Based Precoding in MIMO-OFDM Systems. , 2010, , .		8
103	Space-Time Equalization for Asynchronous Multiuser Bit-Interleaved Coded OFDM. , 2009, , .		0
104	Noisy feedback linear precoding: A Bayesian Cram&#x00E9;r-Rao bound. , 2009, , .		4
105	Throughput of precoded broadcast transmission with noisy feedback. , 2009, , .		4
106	Multi-Antenna Downlink Spatial Division Multiplexing with Opportunistic Feedback. , 2009, , .		0
107	A Variational Inference Framework for Soft-In Soft-Out Detection in Multiple-Access Channels. IEEE Transactions on Information Theory, 2009, 55, 2345-2364.	1.5	11
108	Iterative decoding of serially concatenated CPM in fading channels with noisy channel state information. IEEE Transactions on Communications, 2009, 57, 1079-1086.	4.9	4

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109	Fountain codes over fading relay channels. IEEE Transactions on Wireless Communications, 2009, 8, 3278-3287.	6.1	63
110	Cooperative Quickest Spectrum Sensing in Cognitive Radios with Unknown Parameters. , 2009, , .		19
111	Composite Hypothesis Testing for Cooperative Spectrum Sensing in Cognitive Radio. , 2009, , .		18
112	Bit-Level Equalization and Soft Detection for Gray-Coded Multilevel Modulation. IEEE Transactions on Information Theory, 2008, 54, 4731-4742.	1.5	2
113	GLRT-Based Spectrum Sensing for Cognitive Radio. , 2008, , .		119
114	Belief Propagation on Factor Graphs for Cooperative Spectrum Sensing in Cognitive Radio. , 2008, , .		44
115	On asymptotics of Tomlinson-Harashima precoding with channel uncertainty. , 2008, , .		1
116	Beamforming with limited feedback in amplify-and-forward cooperative networks - [transactions letters]. IEEE Transactions on Wireless Communications, 2008, 7, 5145-5149.	6.1	53
117	Binary Demodulation in Rayleigh Fading with Noisy Channel Estimates - Detector Structures and Performance. IEEE Vehicular Technology Conference, 2008, , .	0.2	1
118	The Variational Inference Approach to Joint Data Detection and Phase Noise Estimation in OFDM. IEEE Transactions on Signal Processing, 2007, 55, 1862-1874.	3.2	91
119	Beamforming with Limited Feedback in Amplify-and-Forward Cooperative Networks. , 2007, , .		28
120	Turbo Equalization for Gray-Coded M-ary QAM with Bit-Level Soft Decisions. , 2007, , .		0
121	Non-Coherent Code Acquisition in the Multiple Transmit/Multiple Receive Antenna Aided Single- and Multi-Carrier DS-CDMA Downlink. IEEE Transactions on Wireless Communications, 2007, 6, 3864-3869.	6.1	333
122	Exact Average Bit-Error Probability for Maximal Ratio Combining with Multiple Cochannel Interferers and Rayleigh Fading. , 2007, , .		3
123	Precoding for the Multiantenna Downlink: Multiuser SNR Gap and Optimal User Ordering. IEEE Transactions on Communications, 2007, 55, 188-197.	4.9	60
124	CTH16-3: Optimum Detection of Binary Signals in Rayleigh Fading Channels with Imperfect Channel Estimates. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
125	Joint estimation of channel response, frequency offset, and phase noise in OFDM. IEEE Transactions on Signal Processing, 2006, 54, 3542-3554.	3.2	125
126	Improving Amplify-and-Forward Relay Networks: Optimal Power Allocation versus Selection. , 2006, , .		248

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127	Symbol error rate of selection amplify-and-forward relay systems. IEEE Communications Letters, 2006, 10, 757-759.	2.5	365
128	Efficient BER evaluation of linear multiuser detectors with imperfect channel estimation for CDMA fading channels. IEEE Transactions on Communications, 2006, 54, 242-250.	4.9	1
129	Detectors and Asymptotic Analysis for Bandwidth-Efficient Space–Time Multiple-Access Systems. IEEE Transactions on Communications, 2006, 54, 1068-1080.	4.9	4
130	Performance of optimum combining with imperfect channel estimates. , 2006, , .		2
131	Near-Optimal Training-Based Estimation of Frequency Offset and Channel Response in OFDM with Phase Noise. , 2006, , .		1
132	Optimal OFDM channel estimation with carrier frequency offset and phase noise. , 2006, , .		5
133	Multiuser Detection of M-QAM Symbols via Bit-Level Equalization and Soft Detection. , 2006, , .		2
134	Performance of Maximal Ratio and Optimum Combining with Channel Estimation Errors and Multiple Interferers in Rayleigh Fading Channels. , 2006, , .		3
135	Phase Noise Mitigation in Serially Concatenated Continuous Phase Modulation with the Sum-Product Algorithm. , 2006, , .		1
136	Space-time multiplexing for mimo multiuser downlink channels. IEEE Transactions on Wireless Communications, 2006, 5, 1726-1734.	6.1	10
137	A variational free energy minimization interpretation of multiuser detection in CDMA. , 2005, , .		11
138	Outage probability at arbitrary SNR with cooperative diversity. IEEE Communications Letters, 2005, 9, 700-702.	2.5	196
139	Multi-antenna downlink precoding with individual rate constraints: power minimization and user ordering. , 2004, , .		17
140	Subspace-Based Active User Identification for a Collision-Free Slotted Ad Hoc Network. IEEE Transactions on Communications, 2004, 52, 612-621.	4.9	31
141	A Low-Complexity Enhancement to Suboptimal CDMA Receivers. IEEE Transactions on Wireless Communications, 2004, 3, 1924-1927.	6.1	2
142	Turbo Multiuser Detection for Differentially Modulated CDMA. IEEE Transactions on Wireless Communications, 2004, 3, 348-352.	6.1	2
143	Optimal STBC Precoding with Channel Covariance Feedback for Minimum Error Probability. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.0	14
144	Analysis of differentially coherent linear receivers over rician-faded CDMA channels. IEEE Transactions on Wireless Communications, 2003, 24, 758-772.	6.1	5

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145	A subspace-based active user identification scheme for cdma ad hoc networks. , 2003, , .		1
146	On spreading codes for the down-link in a multiuser MIMO/OFDM system. , 2003, , .		10
147	Blind iterative decision-feedback multiuser detection of FEC-coded CDMA signals. IEEE Communications Letters, 2001, 5, 459-461.	2.5	0
148	Constrained maximum-likelihood detection in CDMA. IEEE Transactions on Communications, 2001, 49, 142-153.	4.9	84
149	Linear and nonlinear chip-rate minimum mean-squared-error multiuser CDMA detection. IEEE Transactions on Communications, 2001, 49, 530-542.	4.9	10
150	The Kalman filter as the optimal linear minimum mean-squared error multiuser CDMA detector. IEEE Transactions on Information Theory, 2000, 46, 2561-2566.	1.5	44
151	A matrix-algebraic approach to successive interference cancellation in CDMA. IEEE Transactions on Communications, 2000, 48, 145-151.	4.9	114
152	A matrix-algebraic approach to linear parallel interference cancellation in CDMA. IEEE Transactions on Communications, 2000, 48, 152-161.	4.9	113
153	Estimation of directions of arrival of multipath signals in CDMA systems. IEEE Transactions on Communications, 2000, 48, 1022-1028.	4.9	29
154	Relative Performance of BPSK and QPSK in the Presence of Complex Multiuser CDMA Interference. Wireless Personal Communications, 2000, 13, 237-256.	1.8	1
155	Constrained surplus energy adaptive blind CDMA detection. Electronics Letters, 2000, 36, 2098.	0.5	0
156	Convergence analysis of chip- and fractionally spaced LMS adaptive multiuser CDMA detectors. IEEE Transactions on Signal Processing, 2000, 48, 2219-2228.	3.2	14
157	Unified analysis of error probability for MRC in correlated fading channels. Electronics Letters, 1999, 35, 1314.	0.5	13
158	Linear parallel interference cancellation in long-code CDMA multiuser detection. IEEE Journal on Selected Areas in Communications, 1999, 17, 2074-2081.	9.7	76
159	Adaptive filters in multiuser (MU) CDMA detection. Wireless Networks, 1998, 4, 307-318.	2.0	26
160	An asynchronous multiuser CDMA detector based on the Kalman filter. IEEE Journal on Selected Areas in Communications, 1998, 16, 1711-1722.	9.7	54
161	Simplified polynomial-expansion linear detectors for DS-CDMA systems. Electronics Letters, 1998, 34, 1561.	0.5	34
162	Soft handoffs in CDMA mobile systems. IEEE Personal Communications, 1997, 4, 6-17.	4.5	158

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163	Adaptive symbol and parameter estimation in asynchronous multiuser CDMA detectors. IEEE Transactions on Communications, 1997, 45, 213-220.	4.9	46
164	Breadth-first maximum likelihood detection in multiuser CDMA. IEEE Transactions on Communications, 1997, 45, 1176-1178.	4.9	33
165	On-line interpolation using spline functions. IEEE Signal Processing Letters, 1996, 3, 144-146.	2.1	22
166	Adaptive algorithms for joint time delay estimation and IIR filtering. IEEE Transactions on Signal Processing, 1995, 43, 841-851.	3.2	17
167	Iterative multiuser detection for convolutionally encoded CDMA with differential modulation. , 0, , .		0
168	Adaptive narrowband interference cancellation in overlaid CDMA systems using prior knowledge. , 0, , .		0
169	Adaptive delay tracking in asynchronous multiuser CDMA systems. , 0, , .		1
170	A new soft handoff scheme using signal prediction priority queuing for the CDMA dynamic simulcast system. , 0, , .		0
171	A modified blind adaptive multiuser CDMA detector. , 0, , .		2
172	Transmit diversity as a combination of spatial and delay diversity. , 0, , .		3
173	Convex-constrained maximum-likelihood detection in CDMA. , 0, , .		2
174	Bias in CDMA channel estimates with the use of short spreading sequences. , 0, , .		0
175	Sphere-constrained maximum-likelihood detection in CDMA. , 0, , .		3
176	Performance analysis of the LMS blind minimum-output-energy CDMA detector. , 0, , .		5
177	Variable step-size LMS blind CDMA multiuser detector. , 0, , .		1
178	Two dimensional spreading codes for the downlink in a multiuser system with multiple antennas. , 0, , .		2
179	A new approach to adaptive blind MMSE multiuser detection. , 0, , .		0
180	Space-time spreading codes for a multiuser MIMO system. , 0, , .		11

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181	Detectors and asymptotic analysis for bandwidth-efficient space-time multiple-access systems. , 0, , .		0
182	Transmitter and receiver designs for the MIMO fading broadcast channel. , 0, , .		3
183	Space-time transmit diversity in spatially correlated frequency-selective fading channels. , 0, , .		0
184	Precoding of orthogonal STBC with channel covariance feedback for minimum error probability. , 0, , .		15
185	Output SIR distribution of optimum combining in Rayleigh fading channels with channel estimation errors. , 0, , .		8
186	Joint precoding and beamforming design for the downlink in a multiuser MIMO system. , 0, , .		12
187	OFDM phase noise cancellation via approximate probabilistic inference. , 0, , .		13
188	Optimum Combining in Rician/Rayleigh Fading Environment with Channel Estimation Errors. , 0, , .		0