

# Hakan Ali Cirpan

## List of Publications by Year in descending order

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109  
papers

805  
citations

687363

13  
h-index

713466

21  
g-index

112  
all docs

112  
docs citations

112  
times ranked

539  
citing authors

#	ARTICLE	IF	CITATIONS
1	A set of new Chebyshev kernel functions for support vector machine pattern classification. Pattern Recognition, 2011, 44, 1435-1447.	8.1	76
2	Stochastic maximum likelihood methods for semi-blind channel estimation. IEEE Signal Processing Letters, 1998, 5, 21-24.	3.6	49
3	Channel Estimation for LTE Uplink in High Doppler Spread. , 2008, , .		45
4	Maximum likelihood blind channel estimation in the presence of Doppler shifts. IEEE Transactions on Signal Processing, 1999, 47, 1559-1569.	5.3	36
5	Nondata-Aided Channel Estimation for OFDM Systems With Space-Frequency Transmit Diversity. IEEE Transactions on Vehicular Technology, 2006, 55, 449-457.	6.3	33
6	Iterative Channel Estimation and Decoding of Turbo Coded SFBC-OFDM Systems. IEEE Transactions on Wireless Communications, 2007, 6, 3090-3101.	9.2	31
7	Deterministic Maximum Likelihood Approach for 3-D Near Field Source Localization. AEU - International Journal of Electronics and Communications, 2003, 57, 345-350.	2.9	27
8	Generalized Frequency Division Multiplexing with Index Modulation. , 2016, , .		24
9	Deterministic Maximum likelihood Approach for Localization of Near-field Sources. AEU - International Journal of Electronics and Communications, 2002, 56, 1-10.	2.9	23
10	Unconditional Maximum Likelihood Approach for Localization of Near-Field Sources: Algorithm and Performance Analysis. AEU - International Journal of Electronics and Communications, 2003, 57, 9-15.	2.9	22
11	An Adaptive Channel Interpolator Based on Kalman Filter for LTE Uplink in High Doppler Spread Environments. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	2.4	20
12	Generalized Frequency Division Multiplexing With Flexible Index Modulation. IEEE Access, 2017, 5, 24727-24746.	4.2	20
13	Chip interleaving in direct sequence CDMA systems. , 0, , .		17
14	Joint Modulation Classification and Antenna Number Detection for MIMO Systems. IEEE Communications Letters, 2016, 20, 193-196.	4.1	15
15	Spatial modulation GFDM: A low complexity MIMO-GFDM system for 5G wireless networks. , 2016, , .		13
16	Bayesian compressive sensing for primary user detection. IET Signal Processing, 2016, 10, 514-523.	1.5	13
17	Resource allocation for NOMA downlink systems: Genetic algorithm approach. , 2017, , .		13
18	Channel Estimation for TDS-OFDM Systems in Rapidly Time-Varying Mobile Channels. IEEE Transactions on Wireless Communications, 2018, 17, 8123-8135.	9.2	13

#	ARTICLE	IF	CITATIONS
19	Generalized Frequency Division Multiplexing With Flexible Index Modulation Numerology. IEEE Signal Processing Letters, 2018, 25, 1480-1484.	3.6	13
20	Blind receivers for nonlinearly modulated signals in multipath. IEEE Transactions on Signal Processing, 1999, 47, 583-586.	5.3	12
21	Deep Convolutional Learning-Aided Detector for Generalized Frequency Division Multiplexing with Index Modulation. , 2019, , .		11
22	Modeling Queuing Delay of 5G NR With NOMA Under SINR Outage Constraint. IEEE Transactions on Vehicular Technology, 2021, 70, 2389-2403.	6.3	10
23	Jointly optimal chunk and power allocation in uplink SC-FDMA. , 2013, , .		9
24	Compressive sensing for ultra-wideband channel estimation: on the sparsity assumption of ultra-wideband channels. International Journal of Communication Systems, 2014, 27, 3383-3398.	2.5	9
25	Generalized frequency division multiplexing with space and frequency index modulation. , 2017, , .		9
26	Multiple-input multiple-output generalized frequency division multiplexing with index modulation. Physical Communication, 2019, 34, 27-37.	2.1	9
27	Maximum likelihood blind channel estimation in the presence of frequency shifts. , 0, , .		8
28	Maximum likelihood 3-D near-field source localization using the EM algorithm. , 0, , .		8
29	Blind identification of nonlinear channels excited by discrete alphabet inputs. , 0, , .		7
30	Stochastic maximum likelihood methods for semi-blind channel equalization. , 0, , .		7
31	Maximum-likelihood estimation of FIR channels excited by convolutionally encoded inputs. IEEE Transactions on Communications, 2001, 49, 1125-1128.	7.8	7
32	Measurement based FHSS-type Drone Controller Detection at 2.4GHz: An STFT Approach. , 2020, , .		7
33	Image Segmentation for Radar Signal Deinterleaving Using Deep Learning. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 541-554.	4.7	7
34	MAP Channel-Estimation-Based PIC Receiver for Downlink MC-CDMA Systems. Eurasip Journal on Wireless Communications and Networking, 2007, 2008, .	2.4	6
35	An Efficient Joint Data Detection and Channel Estimation Technique for Uplink MC-CDMA Systems Based on SAGE Algorithm. , 2007, , .		6
36	Monte Carlo Solutions for Blind Phase Noise Estimation. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	2.4	6

#	ARTICLE	IF	CITATIONS
37	The effect of channel models on compressed sensing based UWB channel estimation. , 2011, , .		6
38	Achievable performance of Bayesian compressive sensing based spectrum sensing. , 2014, , .		6
39	Pilot-aided Bayesian MMSE channel estimation for OFDM systems: algorithm and performance analysis. , 0, , .		5
40	Iterative Channel Estimation Techniques for Uplink MC-CDMA Systems. , 2007, , .		5
41	Wideband target tracking by using SVR-based sequential Monte Carlo method. Signal Processing, 2008, 88, 2804-2816.	3.7	5
42	An efficient joint channel estimation and decoding algorithm for turbo-coded space-time orthogonal frequency division multiplexing receivers. IET Communications, 2008, 2, 886.	2.2	5
43	GA based multi-objective LTE scheduler. , 2014, , .		5
44	Space Time Block Code classification for MIMO signals exploiting cyclostationarity. , 2015, , .		5
45	Comparison of compressed sensing based algorithms for sparse signal reconstruction. , 2016, , .		5
46	Unconditional maximum likelihood approach for near-field source localization. , 0, , .		4
47	Channel estimation for space-time block coded OFDM systems in the presence of multipath fading. , 0, , .		4
48	Iterative channel estimation approach for space-time/frequency coded OFDM systems with transmitter diversity. European Transactions on Telecommunications, 2004, 15, 235-248.	1.2	4
49	A Low-Complexity Time-Domain MMSE Channel Estimator for Space-Time/Frequency Block-Coded OFDM Systems. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	4
50	ICI-Minimizing Blind Uplink Time Synchronization for OFDMA-Based Cognitive Radio Systems. , 2009, , .		4
51	Bayesian compressive sensing for ultra-wideband channel models. , 2012, , .		4
52	LTE downlink scheduler with reconfigurable traffic prioritization. , 2014, , .		4
53	Optimal power allocation for DL NOMA systems. , 2017, , .		4
54	Iterative Semidefinite Relaxation for Geolocation of Uncooperative Radars Using Doppler Frequency Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1197-1210.	4.7	4

#	ARTICLE	IF	CITATIONS
55	Detection, Identification, and Direction of Arrival Estimation of Drone FHSS Signals With Uniform Linear Antenna Array. IEEE Access, 2021, 9, 152057-152069.	4.2	4
56	Low complexity channel estimation for 3GPP LTE downlink MIMO OFDM systems. , 2011, , .		3
57	Trade-off analysis of QoS-aware configurable LTE downlink schedulers. , 2013, , .		3
58	Energy Efficient Handover in HetNets Using IEEE 802.21. , 2014, , .		3
59	Bayesian compressive sensing for ultra-wideband channel estimation: algorithm and performance analysis. Telecommunication Systems, 2015, 59, 417-427.	2.5	3
60	Cyclostationarity Based Blind Block Timing Estimation for Alamouti Coded MIMO Signals. IEEE Communications Letters, 2017, 21, 1341-1344.	4.1	3
61	Reference signal-aided channel estimation in spatial media-based modulation systems. Physical Communication, 2021, 47, 101396.	2.1	3
62	Measurement-Based Large Scale Statistical Modeling of Air-to-Air Wireless UAV Channels via Novel Time-Frequency Analysis. IEEE Wireless Communications Letters, 2022, 11, 136-140.	5.0	3
63	Joint Data Detection and Channel Estimation for Uplink MC-CDMA Systems over Frequency Selective Channels. , 2007, , 397-406.		3
64	Target priority based optimisation of radar resources for networked air defence systems. IET Radar, Sonar and Navigation, 2022, 16, 1212-1224.	1.8	3
65	Blind receivers for nonlinearly modulated signals in multipath. , 0, , .		2
66	Deterministic maximum likelihood method for the localization of near-field sources: algorithm and performance analysis. , 0, , .		2
67	Blind equalization of quadrature partial response-trellis coded modulated signals in Rician fading. International Journal of Satellite Communications and Networking, 2001, 19, 159-168.	0.6	2
68	Maximum Likelihood Blind Channel Estimation for Space-Time Coding Systems. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.7	2
69	Maximum a posteriori multipath fading channel estimation for ofdm systems. European Transactions on Telecommunications, 2002, 13, 487-494.	1.2	2
70	Joint Channel Tracking and Symbol Detection for OFDM Systems with Kalman Filtering. AEU - International Journal of Electronics and Communications, 2003, 57, 317-327.	2.9	2
71	EM Based Stochastic Maximum Likelihood Approach for Localization of Near-field Sources in 3-D. Frequenz, 2004, 58, .	0.9	2
72	Linear expansions for frequency selective channels in OFDM. AEU - International Journal of Electronics and Communications, 2006, 60, 224-234.	2.9	2

#	ARTICLE	IF	CITATIONS
73	Channel estimation for MIMO-OFDM systems in fixed broadband wireless applications. , 2007, , .		2
74	EM-Based MAP Channel Estimation and Data Detection for Downlink MC-CDMA Systems. , 2007, , .		2
75	An efficient modulation identification algorithm without constellation map knowledge. , 2011, , .		2
76	Channel interpolation for LTE uplink systems with high mobility using Slepian sequences. Physical Communication, 2014, 10, 169-178.	2.1	2
77	The effect of primary user bandwidth on Bayesian compressive sensing based spectrum sensing. , 2015, , .		2
78	Data-aided autoregressive sparse channel tracking for OFDM systems. , 2016, , .		2
79	Joint server and route selection in SDN networks. , 2017, , .		2
80	NOMA Power Allocation for Minimizing System Outage under Rayleigh Fading Channel. , 2019, , .		2
81	User scheduling and power allocation for nonfull buffer traffic in NOMA downlink systems. International Journal of Communication Systems, 2019, 32, e3834.	2.5	2
82	Blind channel estimation for space-time coding systems with Baum-Welch algorithm. , 0, , .		2
83	High mobility enabled spatial and mediaâ€based modulated orthogonal frequency division multiplexing systems for beyond 5G wireless communications. International Journal of Communication Systems, 2022, 35, .	2.5	2
84	Support Vector Machines Based Target Tracking Techniques. , 0, , .		1
85	Blind-phase noise estimation in OFDM systems by sequential Monte Carlo method. European Transactions on Telecommunications, 2006, 17, 685-693.	1.2	1
86	EM Based MAP Channel Estimation for Turbo/Convolutional Coded SFBC/STBC-OFDM Systems. , 0, , .		1
87	Localization of Acoustic Emitters with Time Delay Compensated ML. Frequenz, 2009, 63, .	0.9	1
88	Slepian based channel interpolation for LTE uplink system with high mobility. , 2010, , .		1
89	Adaptive pilot based modulation identification and channel estimation for OFDM systems. , 2010, , .		1
90	Bayesian-based iterative blind joint data detection, code delay and channel estimation for DS-CDMA systems in multipath environments. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
91	A QoS-aware reconfigurable LTE MAC scheduler. , 2014, , .		1
92	Effect of inter-block-interference-free region on compressed sensing based channel estimation in TDS-OFDM systems. , 2016, , .		1
93	Flow re-routing based traffic engineering for SDN networks. , 2017, , .		1
94	Measurement Based Statistical Channel Characterization of Air-to-Ground Path Loss Model at 446MHz for Narrow Band Signals in Low Altitude UAVs. , 2020, , .		1
95	Support Vector Regression for Surveillance Purposes. Lecture Notes in Computer Science, 2006, , 442-449.	1.3	1
96	A Stochastic Approach for Blind Estimation of Multiple Co-Channel Signals Received at an Antenna Array. AEU - International Journal of Electronics and Communications, 2001, 55, 119-122.	2.9	0
97	Near Field Parameter Estimation of Moving Sources with Recursive Expectation Maximization Algorithm. , 2006, , .		0
98	Channel Estimation for MIMO-OFDM in Fixed Broadband Wireless Applications. , 0, , .		0
99	Cluster Scheduling in Range Only Tracking. , 2007, , .		0
100	Cluster Scheduling in Range-Only Tracking with Particle Filtering. , 2007, , .		0
101	Cluster Based Sensor Scheduling in a Target Tracking Application with Particle Filtering. , 2007, , .		0
102	EM-based Joint Data Detection and Channel Estimation for Uplink MC-CDMA Systems over Frequency Selective Channels. , 2007, , .		0
103	Location Estimation of Wideband Sources with Expectation Maximization Algorithm. , 2007, , .		0
104	Wideband source localization and tracking with observation shifted maximum likelihood estimation method. , 2008, , .		0
105	Near field broadband acoustic source localization with observation delay compensated MUSIC algorithm. , 2009, , .		0
106	Space-time block code classification for MIMO signals. , 2014, , .		0
107	Energy efficient handover between heterogeneous networks using IEEE 802.21. , 2014, , .		0
108	Non-Data Aided EM-Based Channel Estimation for OFDM Systems with Time-Varying Fading Channels. , 2002, , 293-301.		0

#	ARTICLE	IF	CITATIONS
109	Rapidly Varying Sparse Channel Tracking with Hybrid Kalman-OMP Algorithm. Lecture Notes in Electrical Engineering, 2019, , 289-298.	0.4	0