

Vahid Tabataba Vakili

List of Publications by Year in descending order

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95
papers

516
citations

933447

10
h-index

940533

16
g-index

96
all docs

96
docs citations

96
times ranked

461
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing excision switching-CFAR in K distributed sea clutter. Signal Processing, 2009, 89, 1023-1031.	3.7	36
2	A New Optimization Problem in FSO Communication System. IEEE Communications Letters, 2018, 22, 1442-1445.	4.1	29
3	A novel hybrid FSO / RF communication system with receive diversity. Optik, 2019, 184, 293-298.	2.9	27
4	Characterization of indoor time reversal UWB communication systems: Spatial, temporal and frequency properties. International Journal of Communication Systems, 2011, 24, 277-294.	2.5	24
5	Graph theoretical defense mechanisms against false data injection attacks in smart grids. Journal of Modern Power Systems and Clean Energy, 2018, 6, 860-871.	5.4	23
6	MUSIC and MVDR DOA estimation algorithms with higher resolution and accuracy. , 2010, , .		22
7	Analytical BER Performance of M-QAM-OFDM Systems in the Presence of IQ Imbalance. , 2007, , .		12
8	Performance comparison of two novel relay-assisted hybrid FSO/RF communication systems. IET Communications, 2019, 13, 1551-1556.	2.2	12
9	Performance of a relay-assisted hybrid FSO/RF communication system. Physical Communication, 2019, 35, 100729.	2.1	12
10	On the performance of a multi-user multi-hop hybrid FSO/RF communication system. Optics Communications, 2019, 444, 172-183.	2.1	12
11	FGAF-CDG: fuzzy geographic routing protocol based on compressive data gathering in wireless sensor networks. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2567-2589.	4.9	12
12	An Autonomous Intrusion Detection System Using an Ensemble of Advanced Learners. , 2020, , .		12
13	Combination of turbo coding and cryptography in NONGEO satellite communication systems. , 2008, , .		11
14	Channel characterization of time reversal UWB communication systems. Annales Des Telecommunications/Annals of Telecommunications, 2010, 65, 601-614.	2.5	11
15	Compressive sensing-based energy consumption model for data gathering techniques in wireless sensor networks. Telecommunication Systems, 2021, 77, 83-108.	2.5	11
16	DOA Estimation Using Multiple Kernel Learning SVM Considering Mutual Coupling. , 2012, , .		10
17	Enhanced Secure Error Correction Code Schemes in Time Reversal UWB Systems. Wireless Personal Communications, 2012, 64, 403-423.	2.7	10
18	Performance analysis of a novel hybrid FSO/RF communication system. IET Optoelectronics, 2020, 14, 66-74.	3.3	10

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19	Lightweight authentication scheme for smart grid using Merkle hash tree and lossless compression hybrid method. IET Communications, 2018, 12, 2478-2484.	2.2	9
20	Performance evaluation of a novel relay-assisted hybrid FSO/RF communication system with receive diversity. IET Optoelectronics, 2019, 13, 203-214.	3.3	9
21	Deep Neural Network for Compressive Sensing and Application to Massive MIMO Channel Estimation. Circuits, Systems, and Signal Processing, 2021, 40, 4474-4489.	2.0	9
22	Analytical EVM, BER, and TD performances of the OFDM systems in the presence of jointly nonlinear distortion and IQ imbalance. Annales Des Telecommunications/Annals of Telecommunications, 2009, 64, 753-762.	2.5	8
23	A SIMO one-bit time reversal for UWB communication systems. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	8
24	Performance analysis of hybrid FSO/RF communication systems with Alamouti coding or antenna selection. Journal of Engineering, 2019, 2019, 3433-3437.	1.1	8
25	Comparative Evaluation Approach for Spectrum Sensing in Cognitive Wireless Sensor Networks (C-WSNs). Canadian Journal of Electrical and Computer Engineering, 2018, 41, 77-86.	2.0	8
26	Adaptive Bandwidth Allocation and Mobility Prediction in Mobile Cellular Networks. , 2009, , .		6
27	Introducing Switching Ordered Statistic CFAR Type I in Different Radar Environments. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.7	6
28	Modified Particle Swarm Optimization for Blind Deconvolution and Identification of Multichannel FIR Filters. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	6
29	Effect of Channel Estimation Error on Time Reversal UWB Communication System. Wireless Personal Communications, 2013, 68, 433-439.	2.7	6
30	Filter-and-forward transceiver design for cognitive two-way relay networks. IET Communications, 2015, 9, 2061-2069.	2.2	6
31	Comparison of Kurtosis and Fourth Power Detectors with Applications to IR-UWB OOK Systems. International Journal of Communications, Network and System Sciences, 2012, 05, 43-49.	0.6	6
32	Comparison of Cooperative and Non-Cooperative Game Schemes for SINR-Constrained Power Allocation in Multiple Antenna CDMA Communication Systems. , 2007, , .		5
33	Wideband direction finding using cumulant with interpolated array. , 2011, , .		5
34	Detection of clone node attack in mobile wireless sensor network with optimised cost function. International Journal of Sensor Networks, 2017, 24, 149.	0.4	5
35	Power allocation based on beamforming in cooperative cognitive radio networks with arbitrary number of secondary users. IET Communications, 2018, 12, 125-135.	2.2	5
36	Design and Simulation of a Secure and Robust Underwater Acoustic Communication System in the Persian Gulf. Communications and Network, 2011, 03, 99-112.	0.8	5

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37	A Game Theoretic Approach for SINR-Constrained Power Control in 3G Cellular CDMA Communication Systems. , 2007, , .		4
38	An analytical closed-form expression for the ergodic capacity of Rayleigh fading MIMO channels and optimal antenna allocation. , 2008, , .		4
39	New Adaptive Method for IQ Imbalance Compensation of Quadrature Modulators in Predistortion Systems. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.7	4
40	A Novel Particle Swarm Optimization for PAPR Reduction of OFDM Systems. , 2012, , .		4
41	A Single Input-Multiple Output Time Reversal UWB Communication System. Wireless Personal Communications, 2012, 66, 367-383.	2.7	4
42	An agent based particle swarm optimization for PAPR reduction of OFDM systems. , 2012, , .		4
43	Dynamic Fractional Frequency Reuse (DFFR) with AMC and Random Access in WiMAX System. Wireless Personal Communications, 2013, 68, 1871-1881.	2.7	4
44	Improving the Physical Layer Security in Cooperative Networks with Multiple Eavesdroppers. Wireless Personal Communications, 2017, 95, 3295-3320.	2.7	4
45	On the performance of a novel multi-hop relay-assisted hybrid FSO / RF communication system with receive diversity. Optik, 2021, 226, 165883.	2.9	4
46	Active User Detection and Channel Estimation for Spatial-Based Random Access in Crowded Massive MIMO Systems via Blind Super-Resolution. IEEE Signal Processing Letters, 2022, 29, 1072-1076.	3.6	4
47	Blind SNR Estimation on WCDMA system with Unequal Power Signals and without any Prior Knowledge. , 2007, , .		3
48	A Transmitter Model for Performance Improvement and Interference Mitigation of Multi-user STBC-CDMA System in Correlated MISO Channels. , 2009, , .		3
49	A low complexity joint compression-error detection-cryptography based on arithmetic coding. , 2010, , .		3
50	Performance enhancement of kurtosis detector using time reversal technique. , 2010, , .		3
51	An improved equation based rate adaptation scheme for video streaming over UMTS. Telecommunication Systems, 2013, 52, 271-283.	2.5	3
52	United Versus Cooperative Spectrum Sensing in Cognitive Wireless Sensor Networks (C-WSNs). Wireless Personal Communications, 2017, 95, 2461-2483.	2.7	3
53	Maximizing the minimum achievable rates in Cognitive Radio networks subject to stochastic constraints. AEU - International Journal of Electronics and Communications, 2018, 92, 146-156.	2.9	3
54	Comparison of Several Multiple Antenna Multiuser Detectors in Wireless CDMA Systems. , 2003, , .		2

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55	Space-Time Precoding for Downlink Transmission in Multiple Antenna CDMA Systems. IEEE Transactions on Vehicular Technology, 2007, 56, 2590-2602.	6.3	2
56	Time reversal technique for ultra wideband (TR-UWB) communication systems and its performance analysis. , 2008, , .		2
57	Secure Arithmetic Coding with Error Detection Capability. Eurasip Journal on Information Security, 2010, 2010, 1-9.	2.2	2
58	Appropriate CCM-based algorithm for adaptive antenna array beamforming. , 2010, , .		2
59	A simple relay selection algorithm in multi user OFDM based cooperative CR networks. , 2014, , .		2
60	Secure resource allocation for the SISO-OFDM wiretap channel. IET Communications, 2017, 11, 2702-2712.	2.2	2
61	An Efficient Routing Tree Algorithm for Combined Uplink and Downlink Subframes on Centralized Scheduling in IEEE 802.16 Based Wireless Mesh Networks. International Journal of Communications, Network and System Sciences, 2011, 04, 219-226.	0.6	2
62	UWB Channel Modeling Improvement in Indoor Line-of-Sight (LOS) Environments. International Journal of Communications, Network and System Sciences, 2010, 03, 870-876.	0.6	2
63	A New Method for Sensing Cognitive Radio Network under Malicious Attacker. International Journal of Communications, Network and System Sciences, 2013, 06, 60-65.	0.6	2
64	Cramer-Rao Bound for Joint Carrier Frequency Offset, Symbol Timing Offset and Channel Taps in MC-CDMA Systems. , 2008, , .		1
65	Transmit covariance for spatially-correlated multiple-antenna Ricean fading channels with channel distribution side information at transmitter. , 2008, , .		1
66	Performance improvement of STBC CDMA system in correlated MIMO channels. , 2009, , .		1
67	STBC CDMA System Simulation in MIMO Channels with Correlative Model. , 2009, , .		1
68	Blind identification and synchronization of unequal power users in CDMA systems based on eigenvalues variations in slow flat fading channels. AEU - International Journal of Electronics and Communications, 2010, 64, 697-709.	2.9	1
69	A new fast algorithm for carrier frequency offset estimation in SISO-OFDM systems. , 2010, , .		1
70	A comparative study of scheduling algorithms for OFDMA-based WiMAX networks. , 2011, , .		1
71	Resource Allocation for OFDMA systems with trade-off between throughput and Quality of Service. , 2012, , .		1
72	Convergence of Price-Based Resource Allocation Algorithms in Multicellular Multicarrier Systems. Wireless Personal Communications, 2013, 71, 3069-3090.	2.7	1

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73	CBâ€REFIM: a practical coordinated beamforming in multicell networks. IET Communications, 2014, 8, 2131-2141.	2.2	1
74	Estimation of the Threshold in Energy and Kurtosis Detectors for IR-UWB OOK Systems. Wireless Personal Communications, 2014, 78, 1511-1526.	2.7	1
75	Power Allocation in Two-Way Relay Networks with MABC DF Protocol and No Instantaneous Channel State Information. Wireless Personal Communications, 2016, 87, 1415-1433.	2.7	1
76	On the construction of polar codes for achieving the capacity of marginal channels. , 2017, , .		1
77	Three analytical approaches to combine ACB scheme and timing advance information for stationary MTC devices. IET Communications, 2018, 12, 1055-1063.	2.2	1
78	Robust Beamforming and Power Allocation in CR MISO Networks with SWIPT to Maximize the Minimum Achievable Rate. Wireless Personal Communications, 2019, 106, 927-954.	2.7	1
79	Mobile User-Activity Prediction Utilizing LSTM Recurrent Neural Network. , 2019, , .		1
80	Spatial Based Pilot Allocation (SBPA) in Crowded Massive MIMO Systems. Wireless Personal Communications, 2021, 119, 239-257.	2.7	1
81	Secure Turbo Codes in Impulsive Noise Channel. , 2007, , .		0
82	Optimality of multichannel beamforming for spatially correlated multiple-antenna Rayleigh fading channels with channel covariance information at transmitter. , 2008, , .		0
83	An equation based rate control for adaptive video streaming over cellular networks. , 2009, , .		0
84	Slot allocation algorithm in Combined Distributed and Centralized scheduling scheme for IEEE 802.16 based wireless mesh networks. , 2010, , .		0
85	Performance Analysis of OFDM-Based Amplify and Forward Networks under Adaptive M-QAM. , 2011, , .		0
86	An Approach to Efficient Spectrum Sensing in Cognitive Wireless Sensor Networks (C-WSNs). Applied Mechanics and Materials, 2012, 256-259, 2303-2306.	0.2	0
87	Direction finding in multipath environment with arbitrary array. , 2012, , .		0
88	Low complexity robust coordinated beamforming in multicell network with channel uncertainties. , 2014, , .		0
89	Secure FSM-based arithmetic codes. Signal, Image and Video Processing, 2014, 8, 1263-1272.	2.7	0
90	Filter-and-forward relay design in cognitive two-way relay networks. , 2015, , .		0

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91	Outage probability improvement of a two-way relay network with MABC DF protocol by joint relay selection and optimal power allocation. , 2016, , .		0
92	Strong Interference Alignment. <i>Wireless Personal Communications</i> , 2021, 116, 3397-3411.	2.7	0
93	Direction Finding Using Cumulant in Multipath Environment with an Arbitrary Array. <i>Journal of Signal and Information Processing</i> , 2012, 03, 215-222.	0.4	0
94	New Approach for Relay and Transceiver Design for Interference Alignment in MIMO Interference Channels. <i>Journal of Computer and Communications</i> , 2013, 01, 1-7.	0.9	0
95	Optimum Resource Allocation for Amplify-and-Forward Cooperative Networks with Differential Modulation. <i>Lecture Notes in Computer Science</i> , 2008, , 88-100.	1.3	0