

Ali Abdi

List of Publications by Year in descending order

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40
papers

726
citations

623188

14
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580395

25
g-index

43
all docs

43
docs citations

43
times ranked

566
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Demonstration of Underwater Acoustic Communication by Vector Sensors. IEEE Journal of Oceanic Engineering, 2011, 36, 454-461.	2.1	72
2	Cyclostationarity-Based Modulation Classification of Linear Digital Modulations in Flat Fading Channels. Wireless Personal Communications, 2010, 54, 699-717.	1.8	70
3	Signal Correlation Modeling in Acoustic Vector Sensor Arrays. IEEE Transactions on Signal Processing, 2009, 57, 892-903.	3.2	61
4	MIMO ISI Channel Estimation Using Uncorrelated Golay Complementary Sets of Polyphase Sequences. IEEE Transactions on Vehicular Technology, 2007, 56, 3024-3039.	3.9	57
5	A new compact multichannel receiver for underwater wireless communication networks. IEEE Transactions on Wireless Communications, 2009, 8, 3326-3329.	6.1	57
6	Fault Diagnosis Engineering of Digital Circuits Can Identify Vulnerable Molecules in Complex Cellular Pathways. Science Signaling, 2008, 1, ra10.	1.6	56
7	A New Vector Sensor Receiver for Underwater Acoustic Communication. , 2007, , .		40
8	Time-Varying MIMO Channels: Parametric Statistical Modeling and Experimental Results. IEEE Transactions on Vehicular Technology, 2007, 56, 1949-1963.	3.9	26
9	Instantaneous Mutual Information and Eigen-Channels in MIMO Mobile Rayleigh Fading. IEEE Transactions on Information Theory, 2012, 58, 353-368.	1.5	26
10	Information processing in the NF- κ B pathway. Scientific Reports, 2017, 7, 15926.	1.6	25
11	A unified approach to the performance analysis of speed estimation techniques in mobile communication. IEEE Transactions on Communications, 2008, 56, 126-135.	4.9	23
12	Quantitative analysis of intracellular communication and signaling errors in signaling networks. BMC Systems Biology, 2014, 8, 89.	3.0	19
13	Time reversal receivers for underwater acoustic communication using vector sensors. , 2008, , .		18
14	Computation and measurement of cell decision making errors using single cell data. PLoS Computational Biology, 2017, 13, e1005436.	1.5	18
15	A Comparative Study of Two Shadow Fading Models in Ultrawideband and Other Wireless Systems. IEEE Transactions on Wireless Communications, 2011, 10, 1428-1434.	6.1	16
16	Bayesian coherent and incoherent matched-field localization and detection in the ocean. Journal of the Acoustical Society of America, 2019, 146, 4812-4820.	0.5	16
17	Cyclostationarity-based doppler spread estimation in mobile fading channels. IEEE Transactions on Communications, 2009, 57, 1061-1067.	4.9	14
18	Signal Transmission Using Underwater Acoustic Vector Transducers. IEEE Transactions on Signal Processing, 2013, 61, 3683-3698.	3.2	12

#	ARTICLE	IF	CITATIONS
19	Fault Diagnosis Engineering in Molecular Signaling Networks: An Overview and Applications in Target Discovery. <i>Chemistry and Biodiversity</i> , 2010, 7, 1111-1123.	1.0	10
20	On the Utility of Laguerre Series for the Envelope PDF in Multipath Fading Channels. <i>IEEE Transactions on Information Theory</i> , 2009, 55, 5652-5660.	1.5	9
21	Nonparametric mobile speed estimation in fading channels: Performance analysis and experimental results. <i>IEEE Transactions on Wireless Communications</i> , 2009, 8, 1683-1692.	6.1	9
22	Advanced Fault Diagnosis Methods in Molecular Networks. <i>PLoS ONE</i> , 2014, 9, e108830.	1.1	9
23	Delay and Doppler spreads in underwater acoustic particle velocity channels. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 2015-2025.	0.5	8
24	Stochastic Fading Channel Models With Multiple Dominant Specular Components. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 2229-2239.	3.9	8
25	On the average crossing rates in selection diversity. <i>IEEE Transactions on Wireless Communications</i> , 2007, 6, 448-451.	6.1	7
26	Modeling and measurement of signaling outcomes affecting decision making in noisy intracellular networks using machine learning methods. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 122-138.	0.6	6
27	Communication Rate Increase in Drill Strings of Oil and Gas Wells Using Multiple Actuators. <i>Sensors</i> , 2019, 19, 1337.	2.1	5
28	Multuser underwater communication with space-time block codes and acoustic vector sensors. , 2008, , .		4
29	On Multiple Wireless Channels in Oil Wells Drill Strings. <i>IEEE Wireless Communications Letters</i> , 2017, 6, 738-741.	3.2	4
30	A comparative study of multichannel and single channel accelerometer sensors for communication in oil wells. , 2017, , .		4
31	Computation capacities of a broad class of signaling networks are higher than their communication capacities. <i>Physical Biology</i> , 2019, 16, 064001.	0.8	4
32	Optimal Training Sequences For Efficient MIMO Frequency-Selective Fading Channel Estimation. , 2006, , .		3
33	CTH09-3: Statistical Characterization of Eigen-Channels in Time-Varying Rayleigh Flat Fading MIMO Systems. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006, , .	0.0	3
34	Correlation Analysis of Instantaneous Mutual Information in 2 × 2 MIMO Systems. , 2006, , .		3
35	Complex human disorders and molecular system engineering: Historical perspective and potential impacts. , 2009, 2009, 1083-5.		2
36	Application of the level crossing rate function to sea clutter. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
37	Experimental results on underwater communication using vector transducers. Proceedings of Meetings on Acoustics, 2015, , .	0.3	1
38	Underwater communication via frequency shift keying in particle velocity channels: Experimental results. , 2015, , .		0
39	Second-order statistics of the instantaneous mutual information in time-varying underwater particle velocity channels. Proceedings of Meetings on Acoustics, 2015, , .	0.3	0
40	Exploring extreme signaling failures in intracellular molecular networks. Computers in Biology and Medicine, 2022, 148, 105692.	3.9	0