Ali Mansour

List of Publications by Year
in descending order

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Version: 2024-02-01

122 papers	2,351 citations	304743 22 h-index	243625 44 g-index
124 all docs	124 docs citations	124 times ranked	1838 citing authors

#	Article	IF	Citations
1	Internet-of-Things (IoT)-Based Smart Agriculture: Toward Making the Fields Talk. IEEE Access, 2019, 7, 129551-129583.	4.2	557
2	New challenges in wireless and free space optical communications. Optics and Lasers in Engineering, 2017, 89, 95-108.	3.8	152
3	Removing artifacts from electrocardiographic signals using independent components analysis. Neurocomputing, 1998, 22, 173-186.	5.9	143
4	Double random phase encryption scheme to multiplex and simultaneous encode multiple images. Applied Optics, 2009, 48, 5933.	2.1	95
5	Spectrum Sensing for Cognitive Radio: Recent Advances and Future Challenge. Sensors, 2021, 21, 2408.	3.8	90
6	Adaptive Array Beamforming Using a Combined LMS-LMS Algorithm. IEEE Transactions on Antennas and Propagation, 2010, 58, 3545-3557.	5.1	78
7	Performance analysis of space shift keying (SSK) modulation with multiple cooperative relays. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	66
8	Modeling of a Complex-Shaped Underwater Vehicle for Robust Control Scheme. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 491-506.	3.4	65
9	UAV-Assisted Dynamic Clustering of Wireless Sensor Networks for Crop Health Monitoring. Sensors, 2018, 18, 555.	3.8	63
10	Fourth-order criteria for blind sources separation. IEEE Transactions on Signal Processing, 1995, 43, 2022-2025.	5.3	54
11	Blind Channel Estimation for STBC Systems Using Higher-Order Statistics. IEEE Transactions on Wireless Communications, 2011, 10, 495-505.	9.2	48
12	Performance analysis of MISO multi-hop FSO links over log-normal channels with fog and beam divergence attenuations. Optics Communications, 2015, 334, 247-252.	2.1	44
13	Adaptive subspace algorithm for blind separation of independent sources in convolutive mixture. IEEE Transactions on Signal Processing, 2000, 48, 583-586.	5.3	43
14	Diversity techniques for a free-space optical communication system in correlated log-normal channels. Optical Engineering, 2014, 53, 016102.	1.0	42
15	A Survey of NOMA for VLC Systems: Research Challenges and Future Trends. Sensors, 2022, 22, 1395.	3.8	38
16	A Sensor-Based Data Analytics for Patient Monitoring in Connected Healthcare Applications. IEEE Sensors Journal, 2021, 21, 974-984.	4.7	36
17	A direct solution for blind separation of sources. IEEE Transactions on Signal Processing, 1996, 44, 746-748.	5.3	32
18	Automatic modulation recognition of MPSK signals using constellation rotation and its 4th order cumulant. , 2005, 15, 295-304.		30

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19	A significant improvement of both yield and purity during SWCNT synthesis via the electric arc process. Carbon, 2007, 45, 1651-1661.	10.3	30
20	What should we say about the kurtosis?. IEEE Signal Processing Letters, 1999, 6, 321-322.	3.6	29
21	Management of civilians with penetrating brain injury: A systematic review. Journal of Critical Care, 2020, 56, 159-166.	2.2	29
22	Sparse ICA via cluster-wise PCA. Neurocomputing, 2006, 69, 1458-1466.	5.9	26
23	Blind multiuser separation of instantaneous mixture algorithm based on geometrical concepts. Signal Processing, 2002, 82, 1155-1175.	3.7	25
24	New spectral image compression method based on an optimal phase coding and the RMS duration principle. Journal of Optics (United Kingdom), 2010, 12, 115403.	2.2	24
25	A Deep Neural Network Model for Hybrid Spectrum Sensing in Cognitive Radio. Wireless Personal Communications, 2021, 118, 281-299.	2.7	22
26	Cloud-connected flying edge computing for smart agriculture. Peer-to-Peer Networking and Applications, 2021, 14, 3405-3415.	3.9	22
27	A Hadoop-Based Platform for Patient Classification and Disease Diagnosis in Healthcare Applications. Sensors, 2020, 20, 1931.	3.8	19
28	Modeling of a complex-shaped underwater vehicle. , 2014, , .		17
29	Multichannel blind separation of sources algorithm based on cross-cumulant and the Levenberg-Marquardt method. IEEE Transactions on Signal Processing, 1999, 47, 3172-3175.	5.3	16
30	Affordable Broad Agile Farming System for Rural and Remote Area. IEEE Access, 2019, 7, 127098-127116.	4.2	14
31	Fusion of Swath Bathymetric Data: Application to AUV Rapid Environment Assessment. IEEE Journal of Oceanic Engineering, 2019, 44, 111-120.	3.8	13
32	A mutually referenced blind multiuser separation of convolutive mixture algorithm. Signal Processing, 2001, 81, 2253-2266.	3.7	12
33	All-optical video-image encryption with enforced security level using independent component analysis. Journal of Optics, 2007, 9, 787-796.	1.5	12
34	Spatial diversity for FSO communication systems over atmospheric turbulence channels. , 2014, , .		12
35	The performance of space shift keying for free-space optical communications over turbulent channels. Proceedings of SPIE, 2015, , .	0.8	12
36	UAV routing protocol for crop health management. , 2016, , .		12

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37	Simultaneous up- and down-frequency mixing based on a cascaded SOA-MZIs link. Applied Optics, 2021, 60, 8336.	1.8	12
38	OFDM signal down frequency conversion based on a SOA-MZI sampling mixer using differential modulation and switching architectures. Optik, 2021, 245, 167761.	2.9	12
39	A Pipelined Reduced Complexity Two-Stages Parallel LMS Structure for Adaptive Beamforming. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5079-5091.	5.4	12
40	Spectrum sensing based on cumulative power spectral density. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.7	11
41	Separation of sources using simulated annealing and competitive learning. Neurocomputing, 2002, 49, 39-60.	5.9	10
42	Adaptive array beamforming using a combined LMS-LMS algorithm. , 2010, , .		10
43	Energy and Performance Analysis of Lossless Compression Algorithms for Wireless EMG Sensors. Sensors, 2021, 21, 5160.	3.8	10
44	Composite web QoS with workflow conditional pathways using bounded sets. Service Oriented Computing and Applications, 2013, 7, 101-116.	1.6	9
45	Spectrum Sensing for Half and Full-Duplex Cognitive Radio. Signals and Communication Technology, 2017, , 15-50.	0.5	9
46	Low Complexity Robust Adaptive Beamformer Based On Parallel RLMS and Kalman RLMS. , 2019, , .		9
47	Blind separation of ECG signals from noisy signals affected by electrosurgical artifacts. Analog Integrated Circuits and Signal Processing, 2020, 104, 191-204.	1.4	9
48	Classification of digital modulated signals based on time frequency representation. , 2010, , .		8
49	Efficient spectrum sensing approaches based on waveform detection. , 2014, , .		8
50	Effects of Atmospheric Turbulence on Optical Wireless Communication in NEOM Smart City. Photonics, 2022, 9, 262.	2.0	7
51	Venous blood clot structure characterization using scattering operator. , 2016, , .		6
52	Spectrum Sensing for Full-Duplex Cognitive Radio Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 363-374.	0.3	6
53	Simultaneous Transmittingâ€“Receivingâ€“Sensing for OFDM-based Full-Duplex Cognitive Radio. Physical Communication, 2020, 39, 100987.	2.1	6
54	In-Network Data Aggregation for Ad Hoc Clustered Cognitive Radio Wireless Sensor Network. Sensors, 2021, 21, 6741.	3.8	6

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55	Simultaneous Up-Conversion Based on a Co- & Counter-Directions SOA-MZI Sampling Mixer with Standard & Differential Modulation Modes. Photonics, 2022, 9, 109.	2.0	6
56	New Image Encryption and Compression Method Based on Independent Component Analysis. , 2008, , .		5
57	Spectrum Sensing enhancement using Principal Component Analysis. , 2016, , .		5
58	Blind detection of cyclostationary features in the context of Cognitive Radio. , 2016, , .		5
59	Relay selection for full-duplex FSO relays over turbulent channels. , 2016, , .		5
60	CTMC modelling for H2H/M2M coexistence in LTEâ€A/LTEâ€M networks. Journal of Engineering, 2018, 2018, 1954-1962.	1.1	5
61	Adaptive Strategy and Decision Making Model for Sensing-Based Network Applications. , 2019, , .		5
62	Coagulopathy as a Surrogate of Severity of Injury in Penetrating Brain Injury. Journal of Neurotrauma, 2021, 38, 1821-1826.	3.4	5
63	ESco: Eligibility score-based strategy for sensors selection in CR-IoT: Application to LoRaWAN. Internet of Things (Netherlands), 2021, 13, 100362.	7.7	5
64	Real & Simulated QPSK Up-Converted Signals by a Sampling Method Using a Cascaded MZMs Link. Photonics, 2022, 9, 34.	2.0	5
65	Spatial and time diversities for canonical correlation significance test in spectrum sensing. , 2016, , .		4
66	LTE-M adaptive eNodeB for emergency scenarios. , 2017, , .		4
67	On Optimizing the Performance of Impulse Radio Pulse Position Modulation Based on UWB Gaussian Pulse Derivatives. , 2019, , .		4
68	ON-IN: An On-Node and In-Node Based Mechanism for Big Data Collection in Large-Scale Sensor Networks. , 2019, , .		4
69	VoglerNet: multiple knife-edge diffraction using deep neural network. , 2020, , .		4
70	Pulse parity modulation for impulse radio UWB transmission based on non-coherent detection. Physical Communication, 2020, 40, 101061.	2.1	4
71	On the Proof of Recursive Vogler Algorithm for Multiple Knife-Edge Diffraction. IEEE Transactions on Antennas and Propagation, 2021, 69, 3617-3622.	5.1	4
72	Deep venous thrombus characterization: ultrasonography, elastography and scattering operator. Advances in Science, Technology and Engineering Systems, 2017, 2, 48-59.	0.5	4

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73	LoRaCog: A Protocol for Cognitive Radio-Based LoRa Network. Sensors, 2022, 22, 3885.	3.8	4
74	Frequency Alteration Built on an Electro-Optical Sampling SOAâ€“MZI Using a Differential Modulation Schema. Optics, 2022, 3, 225-233.	1.2	4
75	HOS Based Distinctive Features for Preliminary Signal Classification. Lecture Notes in Computer Science, 2004, , 1158-1164.	1.3	3
76	Analysis of the RLMS adaptive beamforming algorithm implemented with finite precision. , 2010, , .		3
77	Application of Fuzzy Logic control in automated transport systems. , 2010, , .		3
78	Performance of an LLMS beamformer in the presence of element gain and spacing variations. , 2011, , .		3
79	CTMC Modeling for M2M/H2H Coexistence in a NB-IoT Adaptive eNodeB. , 2018, , .		3
80	Cancelation of LNA distortions in inâ€band fullâ€duplex systems. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3426.	3.9	3
81	Distributed Algorithm to Learn OSA Channels Availability and Enhance the Transmission Rate of Secondary Users. , 2019, , .		3
82	A Wideband Spectrum Sensing Approach for Cognitive Radios Based on Cepstral Analysis. IEEE Open Journal of the Communications Society, 2020, 1, 863-888.	6.9	3
83	Distributed algorithm under cooperative or competitive priority users in cognitive networks. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	2.4	3
84	All-Powerful Learning Algorithm for the Priority Access in Cognitive Network. , 2019, , .		3
85	Dynamic Decision-Making Process in the Opportunistic Spectrum Access. Advances in Science, Technology and Engineering Systems, 2020, 5, 223-233.	0.5	3
86	Estimation of speech embedded in a reverberant environment with multiple sources of noise. , 0, , .		2
87	Independent Component Analysis Based Approach to Biometric Recognition. , 2008, , .		2
88	LLMS adaptive beamforming algorithm implemented with finite precision. , 2012, , .		2
89	Enhancement of acoustic tomography using spatial and frequency diversities. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	2
90	Blind estimation of statistical properties of non-stationary random variables. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	2

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91	Deep Venous Thrombosis: Database creation and image preprocessing. , 2016, , .		2
92	Blind Spectrum Sensing Based on Recurrence Quantification Analysis in the Context of Cognitive Radio. , 2018, , .		2
93	Design and Evaluation of a Wireless Electrocardiogram Monitor in an Operating Room. Anesthesia and Analgesia, 2019, 129, 991-996.	2.2	2
94	A Multi-Stage Parallel LMS Structure and its Stability Analysis Using Transfer Function Approximation. , 2021, , .		2
95	Two Stages Parallel LMS Structure: A Pipelined Hardware Architecture. , 2021, , .		2
96	Civilian Firearm-Inflicted Brain Injury: Coagulopathy, Vascular Injuries, and Triage. Current Neurology and Neuroscience Reports, 2021, 21, 47.	4.2	2
97	Instantaneous MISO Separation of BPSK Sources. Lecture Notes in Computer Science, 2006, , 862-867.	1.3	2
98	Case Report: Management of Traumatic Carotid-Cavernous Fistulas in the Acute Setting of Penetrating Brain Injury. Frontiers in Neurology, 2021, 12, 715955.	2.4	2
99	Navigation by weighted chance. , 1999, , .		1
100	Wideband high dynamic range surveillance. , 2015, , .		1
101	Analytical performance analysis for blind quantum source separation with time-varying coupling. , 2017, , .		1
102	Hardware-in-the-Loop Simulation Applied to AUV Control. , 2018, , .		1
103	Blind Elimination of Electrical Artifacts Caused by the Electrosurgical Units (ESU) for ECG Signals. , 2018, , .		1
104	Novel Sensing Mechanism for Full-Duplex Secondary Users in Cognitive Radio. , 2019, , .		1
105	A closed-form expression of the BER of reconfigurable antenna aided Space Shift Keying (SSK). , 2019, , .		1
106	LLMS Adaptive Array Beamforming Algorithm for Concentric Circular Arrays. , 2013, , .		1
107	V2V Influence on M2M and H2H Traffics During Emergency Scenarios. Advances in Mechatronics and Mechanical Engineering, 2020, , 93-134.	1.0	1
108	Users Selection and Resource Allocation in Intelligent Reflecting Surfaces Assisted Cellular Networks. , 2021, , .		1

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109	Estimation of the Primary User's Beam Width Using Cooperative Secondary Users. , 2021, , .		1
110	Survey on machine learning applied to medical image analysis. , 2021, , .		1
111	Statistical intrusion detection and eavesdropping in quantum channels with coupling: multiple-preparation and single-preparation methods. Quantum Information Processing, 2022, 21, 1.	2.2	1
112	Orientation by weighted randomness. Artificial Life and Robotics, 2000, 4, 119-123.	1.2	0
113	Sensor Networks for Underwater Ecosystem Monitoring and Port Surveillance Systems. , 2014, , 431-468.		0
114	Automatic clustering for MRI images, application on perfusion MRI of brain. , 2016, , .		0
115	Unsupervised clustering of DVT Ultrasound Images using High Order Statistics. , 2018, , .		0
116	Insights into portability issues of FM3TR waveform. Analog Integrated Circuits and Signal Processing, 2021, 106, 45-57.	1.4	0
117	Stability Analysis of the RC-PLMS Adaptive Beamformer Using a Simple Transfer Function Approximation. , 2021, , .		0
118	Batch Mutually Referenced Separation Algorithm for MIMO Convolutive Mixtures. Lecture Notes in Computer Science, 2004, , 453-460.	1.3	0
119	Spectrum Sensing by Cepstral Covariance Detection. IEEE Communications Letters, 2022, 26, 1323-1327.	4.1	0
120	A Modified RC-pLMS Adaptive Beamformer for Secure Digital Communication. , 2021, , .		0
121	A Cepstrum-Based Spectrum Sensing Approach for Detecting Spread Spectrum Signals. Journal of Physics: Conference Series, 2021, 2128, 012003.	0.4	0
122	A generalized recursive Vogler algorithm for multiple bridged knife-edge diffraction. IEEE Transactions on Antennas and Propagation, 2022, , 1-1.	5.1	0