

Tarek Elfouly

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

909
citations

759233

12
h-index

713466

21
g-index

60
all docs

60
docs citations

60
times ranked

1169
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Health Monitoring Using Wireless Sensor Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 1403-1423.	39.4	321
2	A Survey on Mobile Crowd-Sensing and Its Applications in the IoT Era. IEEE Access, 2019, 7, 3855-3881.	4.2	53
3	Maximizing Lifetime in Wireless Sensor Network for Structural Health Monitoring With and Without Energy Harvesting. IEEE Access, 2017, 5, 2383-2395.	4.2	48
4	Joint Optimal Placement, Routing, and Flow Assignment in Wireless Sensor Networks for Structural Health Monitoring. IEEE Sensors Journal, 2016, 16, 5095-5106.	4.7	36
5	A Deep Learning Approach for Vital Signs Compression and Energy Efficient Delivery in mhealth Systems. IEEE Access, 2018, 6, 33727-33739.	4.2	31
6	Secure Spatial Multiple Access Using Directional Modulation. IEEE Transactions on Wireless Communications, 2018, 17, 563-573.	9.2	29
7	Optical Mode Division Multiplexing for Secure Ro-FSO WLANs. Advanced Science Letters, 2015, 21, 3046-3049.	0.2	29
8	Multimodal Deep Learning Approach for Joint EEG-EMG Data Compression and Classification. , 2017, , .		27
9	Evolution of Internet of Things From Blockchain to IOTA: A Survey. IEEE Access, 2022, 10, 844-866.	4.2	27
10	Unleashing the secure potential of the wireless physical layer: Secret key generation methods. Physical Communication, 2016, 19, 1-10.	2.1	25
11	Secret Key Generation Based on AoA Estimation for Low SNR Conditions. , 2015, , .		19
12	Non-data-aided SNR estimation for QPSK modulation in AWGN channel. , 2014, , .		18
13	Distributed in-network processing and resource optimization over mobile-health systems. Journal of Network and Computer Applications, 2017, 82, 65-76.	9.1	15
14	Distributed algorithms in wireless sensor networks: An approach for applying binary consensus in a real testbed. Computer Networks, 2015, 79, 30-38.	5.1	14
15	Impact of time synchronization error on the mode-shape identification and damage detection/localization in WSNs for structural health monitoring. Journal of Network and Computer Applications, 2017, 83, 181-189.	9.1	14
16	Network Association with Dynamic Pricing over D2D-Enabled Heterogeneous Networks. , 2017, , .		13
17	Estimating the number of sources: An efficient maximization approach. , 2015, , .		12
18	Secure multiple-users transmission using multi-path directional modulation. , 2016, , .		10

#	ARTICLE	IF	CITATIONS
19	The Impact of Stealthy Attacks on Smart Grid Performance: Tradeoffs and Implications. IEEE Transactions on Control of Network Systems, 2017, 4, 886-898.	3.7	10
20	Effect of Vortex Order on Helical-Phased Donut Mode Launch in Multimode Fiber. Advanced Science Letters, 2015, 21, 3042-3045.	0.2	10
21	FPGA implementation of DWT EEG data compression for wireless body sensor networks. , 2016, , .		9
22	Estimating the number of sources in white Gaussian noise: simple eigenvalues based approaches. IET Signal Processing, 2017, 11, 663-673.	1.5	9
23	Walsh transform with moving average filtering for data compression in wireless sensor networks. , 2017, , .		9
24	A new WDM Application Response Time in WLAN Network and Fixed WiMAX using Distributed. , 2014, , .		8
25	Robust secret key extraction from channel secondary random process. Wireless Communications and Mobile Computing, 2016, 16, 1389-1400.	1.2	8
26	On the performance of spectrum sensing based on GLR for full-duplex cognitive radio networks. , 2016, , .		7
27	Performance evaluation of experimental damage detection in structure health monitoring using acceleration. , 2016, , .		7
28	TOSSIM and distributed binary consensus algorithm in wireless sensor networks. Journal of Network and Computer Applications, 2014, 41, 451-458.	9.1	6
29	A Simple Cross Correlation Switched Beam System (XSBS) for Angle of Arrival Estimation. IEEE Access, 2017, 5, 3340-3352.	4.2	6
30	A Simple Angle of Arrival Estimation System. , 2017, , .		6
31	Higher order statistical frequency domain decomposition for operational modal analysis. Mechanical Systems and Signal Processing, 2017, 84, 100-112.	8.0	6
32	Binary consensus in sensor motes. , 2013, , .		5
33	Distributed binary consensus algorithm in wireless sensor networks with faulty nodes. , 2013, , .		5
34	Secret key generation based on channel and distance measurements. , 2014, , .		5
35	Secrecy for MIMO wiretap and MIMO broadcast channels with fading eavesdroppers: CSI does not increase the secure DoF. , 2015, , .		5
36	Comparative simulation for physical layer key generation methods. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
37	Deep learning and low rank dictionary model for mHealth data classification. , 2018, , .		5
38	Multi-objective sensor placement using the effective independence model (SPEM) for wireless sensor networks in structural health monitoring. , 2015, , .		4
39	Deep learning approach for EEG compression in mHealth system. , 2017, , .		4
40	Video acquisition between USB 2.0 CMOS camera and embedded FPGA system. , 2011, , .		3
41	Routing and flow rate assignment using multi-objective optimization in wireless sensor networks. , 2015, , .		3
42	Impact of time synchronization error on the mode-shape calculation in wireless sensor networks for structural health monitoring. , 2016, , .		3
43	Performance of eigenvalue based spectrum sensing in full-duplex cognitive radio networks. , 2016, , .		3
44	MESP: A Modified IPSec for Secure Multicast Communication. , 2006, , .		2
45	On the distributed binary consensus algorithm in wireless sensor networks. , 2013, , .		2
46	Energy-cost-distortion optimization for delay-sensitive M-health applications. , 2015, , .		2
47	Minimising number of sensors in wireless sensor networks for structure health monitoring systems. IET Wireless Sensor Systems, 2019, 9, 94-101.	1.7	2
48	Order Statistics-Based Design of UWB Receivers. IEEE Wireless Communications Letters, 2020, 9, 1427-1431.	5.0	2
49	Digital government service machine DGSM. , 2008, , .		1
50	QUMESH: Wireless mesh network deployment and configuration in harsh environment. , 2012, , .		1
51	Distributed binary consensus algorithm and wireless sensor network. , 2013, , .		1
52	Channel secondary random process for robust secret key generation. , 2015, , .		1
53	Optimal Consensus Time Synchronizations for Wireless Sensor Networks. , 2020, , .		1
54	Distributed Framework via Block-chain Smart Contracts for Smart Grid Systems against Cyber-Attacks. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
55	Vibration Energy Harvesting in Wireless Sensor Networks (WSNs) for Structural Health Monitoring (SHM). , 2016, , .		1
56	Using IPSec to Secure Multi-Level Data Classification in MLS Networks. , 2006, , .		0
57	Modeling of the exhaust box assembly workshop using neural networks. , 2008, , .		0
58	Exploiting spectrum sensing data for key management. Computer Communications, 2017, 97, 31-39.	5.1	0
59	Towards Information Theoretic Interpretation of Practical Ciphers. , 2021, , .		0
60	Energy-Efficient Proactive Scheduling Policies for Finite-Buffer Regular Service Guarantees. , 2022, , .		0