Haythem Bany Salameh

List of Publications by Year
in descending order

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136 papers	2,367 citations	346980 22 h-index	312153 41 g-index
136 all docs	136 docs citations	136 times ranked	2259 citing authors

#	Article	IF	Citations
1	Multi-Layer Graded-Index Planar Structure for Coarse WDM Demultiplexing. Journal of Optical Communications, 2024, 44, s107-s117.	4.0	0
2	A Novel Trust-Aware and Energy-Aware Clustering Method That Uses Stochastic Fractal Search in IoT-Enabled Wireless Sensor Networks. IEEE Systems Journal, 2022, 16, 2693-2704.	2.9	15
3	Highly Reliable Transmission and Channel Assignment for CR-IoT Networks. IEEE Internet of Things Journal, 2022, 9, 3945-3953.	5.5	5
4	Price- and rate-aware multi-channel spectrum access for profit enhancement in opportunistic networks with QoS guarantees. ICT Express, 2022, 8, 77-82.	3.3	3
5	Efficient user-channel pairing with power-domain sum-rate maximization in opportunistic hybrid OFDMA-NOMA IoT systems. Cluster Computing, 2022, 25, 2501-2514.	3.5	4
6	Jamming-Aware Simultaneous Multi-Channel Decisions for Opportunistic Access in Delay-Critical IoT-Based Sensor Networks. IEEE Sensors Journal, 2022, 22, 2889-2898.	2.4	3
7	Energy-efficient opportunistic multi-carrier NOMA-based resource allocation for beyond 5G (B5G) networks. Simulation Modelling Practice and Theory, 2022, 116, 102452.	2.2	16
8	Exploiting device-to-device (D2D) transmission strategy for throughput enhancement in WLANs. Wireless Networks, 2022, 28, 381-391.	2.0	0
9	A Formula for the Probability of Successful Packet Transmission in Cognitive Radio Networks. IEEE Systems Journal, 2022, , 1-4.	2.9	0
10	A multi-layer hyper-graph routing with jamming-awareness for improved throughput in full-duplex cognitive radio networks. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 5318-5332.	2.7	8
11	A survey on DoS/DDoS mitigation techniques in SDNs: Classification, comparison, solutions, testing tools and datasets. Computers and Electrical Engineering, 2022, 99, 107706.	3.0	28
12	Resilient Back Propagation Neural Network Security Model For Containerized Cloud Computing. Simulation Modelling Practice and Theory, 2022, 118, 102544.	2.2	12
13	Energy-aware spectrum coordination with intelligent frequency-hopping for software defined networks. Sustainable Computing: Informatics and Systems, 2022, 35, 100714.	1.6	0
14	Hybrid energy-efficient algorithm for efficient Internet of Things deployment. Sustainable Computing: Informatics and Systems, 2022, 35, 100715.	1.6	3
15	Opportunistic non-contiguous OFDMA scheduling framework for future B5G/6G cellular networks. Simulation Modelling Practice and Theory, 2022, 119, 102563.	2.2	8
16	A survey of blockchain applications in sustainable and smart cities. Cluster Computing, 2022, 25, 3915-3936.	3.5	27
17	An End-to-End Early Warning System Based on Wireless Sensor Network for Gas Leakage Detection in Industrial Facilities. IEEE Systems Journal, 2021, 15, 5135-5143.	2.9	11
18	Intelligent multicast routing for multimedia over cognitive radio networks: a probabilistic approach. Multimedia Tools and Applications, 2021, 80, 16731-16742.	2.6	5

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19	Yet efficient routing protocols for half- and full-duplex cognitive radio Ad-Hoc Networks over IoT environment. Journal of Network and Computer Applications, 2021, 173, 102836.	5.8	22
20	Routing in cognitive radio networks with full-duplex capability under dynamically varying spectrum availability. ICT Express, 2021, 7, 115-120.	3.3	4
21	Quantifying the Impact of Time-Sharing on Route Capacity in Cognitive Radio Networks With Full-Duplex Capability. IEEE Communications Letters, 2021, 25, 94-98.	2.5	9
22	Adaptive Packet-size Control for Improved Throughput in Dynamic Access Networks. Cluster Computing, 2021, 24, 1935-1944.	3.5	1
23	Downlink Multi-Carrier NOMA With Opportunistic Bandwidth Allocations. IEEE Wireless Communications Letters, 2021, 10, 2426-2429.	3.2	13
24	Intelligent Secure Networking in In-band Full-duplex Dynamic Access Networks: Spectrum Management and Routing Protocol. Journal of Network and Systems Management, 2021, 29, 1.	3.3	3
25	Effective peer-to-peer routing in heterogeneous half-duplex and full-duplex multi-hop cognitive radio networks. Peer-to-Peer Networking and Applications, 2021, 14, 3225-3234.	2.6	1
26	A twoâ€level clustering mechanism for energy enhancement in Internetâ€ofâ€Thingsâ€based wireless sensor networks. International Journal of Communication Systems, 2021, 34, e4913.	1.6	14
27	Energy-Efficient Cross-Layer Spectrum Sharing in CR Green IoT Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 1091-1100.	3.5	21
28	Power allocation technique with soft performance guarantees in hybrid OFDMAâ€“NOMA cognitive radio systems: Modeling and simulation. Simulation Modelling Practice and Theory, 2021, 112, 102370.	2.2	9
29	A Joint Beamforming and Power-Splitter Optimization Technique for SWIPT in MISO-NOMA System. IEEE Access, 2021, 9, 33018-33029.	2.6	3
30	Performance Analysis of Drone Assisted Multiple Antenna Backscatter IoT Sensor Network. , 2021, , .		4
31	An Efficient Power Allocation Algorithm for Improved System Performance in MIMO Two-Relay Wireless IoT Networks: A Heuristic Approach. , 2021, , .		5
32	On The Performance of Multi-Carrier SDMA-NOMA CR-Based Systems. , 2021, , .		1
33	Reinforcement Learning Method for Autonomous UAVs Monitoring an Uncertain Target. , 2021, , .		4
34	Pricing and Market Strategies for Dynamic Spectrum Access Networks: Overview and Visionary Frameworks. , 2021, , .		0
35	End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Over $alpha$â€“etaâ€“mu Fading Channels. IEEE Systems Journal, 2020, 14, 84-92.	2.9	5
36	A Profitable and Energy-Efficient Cooperative Fog Solution for IoT Services. IEEE Transactions on Industrial Informatics, 2020, 16, 3578-3586.	7.2	81

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37	Spectrum management with simultaneous powerâ€controlled assignment decisions in cognitive radio networks. Concurrency Computation Practice and Experience, 2020, 32, e5224.	1.4	15
38	Simulation-Based Optical Threshold Component Design for Mitigating Four-Wave Mixing Effects in WDM Radio Over Fiber Systems. Journal of Optical Communications, 2020, 41, 429-436.	4.0	1
39	Intelligent jamming-aware routing in multi-hop IoT-based opportunistic cognitive radio networks. Ad Hoc Networks, 2020, 98, 102035.	3.4	43
40	JavaSim-IBFD-CRNs: Novel java simulator for in-band Full-Duplex cognitive radio networks over Internet of Things environment. Journal of Network and Computer Applications, 2020, 172, 102833.	5.8	12
41	Channel assignment mechanism for cognitive radio network with rate adaptation and guard band awareness: batching perspective. Wireless Networks, 2020, 26, 4477-4489.	2.0	17
42	UAV-Assisted Vehicular Communication for Densely Crowded Environments. , 2020, , .		23
43	Securing Delay-Sensitive CR-IoT Networking Under Jamming Attacks: Parallel Transmission and Batching Perspective. IEEE Internet of Things Journal, 2020, 7, 7529-7538.	5.5	19
44	Joint Channel Assignment and Adaptive Mode Selection in MIMO-Based Cognitive Radio Networks. Arabian Journal for Science and Engineering, 2020, 45, 10233-10244.	1.7	10
45	A platform for power management based on indoor localization in smart buildings using long shortâ€term neural networks. Transactions on Emerging Telecommunications Technologies, 2020, , e3867.	2.6	23
46	Routing With Intelligent Spectrum Assignment in Full-Duplex Cognitive Networks Under Varying Channel Conditions. IEEE Communications Letters, 2020, 24, 872-876.	2.5	22
47	Integrating Advanced Harmony Search with Fuzzy Logic for Solving Buffer Allocation Problems. Arabian Journal for Science and Engineering, 2020, 45, 3233-3244.	1.7	4
48	Modelling multi-packet multi-receiver spectrum sharing using D-OFDM in software-defined networks. Simulation Modelling Practice and Theory, 2020, 103, 102104.	2.2	4
49	Robust massive MIMO channel estimation for 5G networks using compressive sensing technique. AEU - International Journal of Electronics and Communications, 2020, 120, 153197.	1.7	24
50	A multi-stage resource-constrained spectrum access mechanism for cognitive radio IoT networks: Time-spectrum block utilization. Future Generation Computer Systems, 2020, 110, 254-266.	4.9	20
51	Dynamic resource allocation for opportunistic software-defined IoT networks: stochastic optimization framework. International Journal of Electrical and Computer Engineering, 2020, 10, 3854.	0.5	1
52	A Mobility Management Architecture for Seamless Delivery of 5G-IoT Services. , 2019, , .		33
53	Extending NS3 to Simulate Cognitive Radio Wireless Networks in a Jammed Environment. , 2019, , .		2
54	An intrusion detection system for connected vehicles in smart cities. Ad Hoc Networks, 2019, 90, 101842.	3.4	278

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55	Aâ€“Z overview of the in-band full-duplex cognitive radio networks. Computer Communications, 2019, 145, 66-95.	3.1	44
56	Cloud-Based Multi-Agent Cooperation for IoT Devices Using Workflow-Nets. Journal of Grid Computing, 2019, 17, 625-650.	2.5	58
57	Spectrum Assignment in Hardware-Constrained Cognitive Radio IoT Networks Under Varying Channel-Quality Conditions. IEEE Access, 2019, 7, 42816-42825.	2.6	30
58	Data and Service Management in Densely Crowded Environments: Challenges, Opportunities, and Recent Developments. IEEE Communications Magazine, 2019, 57, 81-87.	4.9	86
59	A rateâ€maximizing spectrum sharing algorithm for cognitive radio networks with generic resource constraints. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3602.	2.6	5
60	Power Controlled Medium Access Control Design For Cognitive Radio Ad-Hoc Network. , 2019, , .		0
61	Batch-based Power-controlled Channel Assignment for Improved Throughput in Software-defined Networks. , 2019, , .		3
62	Secure Routing in Multi-hop IoT-based Cognitive Radio Networks under Jamming Attacks. , 2019, , .		13
63	A distributed multi-layer MEC-cloud architecture for processing large scale IoT-based multimedia applications. Multimedia Tools and Applications, 2019, 78, 24617-24638.	2.6	15
64	Spectrum-Aware Routing in Full-Duplex Cognitive Radio Networks: An Optimization Framework. IEEE Systems Journal, 2019, 13, 183-191.	2.9	22
65	Securing IoT Delay-Sensitive Communications with Opportunistic Parallel Transmission Capability. , 2019, , .		3
66	Renewable Energy-Aware Joint Caching and Routing for Green Communication Networks. IEEE Systems Journal, 2018, 12, 768-777.	2.9	22
67	Spectrum Assignment in Cognitive Radio Networks for Internet-of-Things Delay-Sensitive Applications Under Jamming Attacks. IEEE Internet of Things Journal, 2018, 5, 1904-1913.	5.5	92
68	Multi-stage Mirror-Based Planar Structure for Wavelength Division Demultiplexing. Journal of Optical Communications, 2018, 39, 273-283.	4.0	2
69	Anomaly-based framework for detecting dynamic spectrum access attacks in cognitive radio networks. Telecommunication Systems, 2018, 67, 217-229.	1.6	14
70	Collusion attacks mitigation in internet of things: a fog based model. Multimedia Tools and Applications, 2018, 77, 18249-18268.	2.6	37
71	Scalable Video Streaming for Real-Time Multimedia Applications over DDS Middleware for Future Internet Architecture. , 2018, , .		7
72	A power-control interference management mechanism for Femtocell-based networks. International Journal of High Performance Computing and Networking, 2018, 12, 226.	0.4	2

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73	Batchâ€based securityâ€aware spectrum sharing with simultaneous assignment decisions in timeâ€critical IoT networks with cognitive radio capabilities. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3317.	2.6	3
74	Mobility aware and dual phase AODV protocol with adaptive hello messages over vehicular ad hoc networks. AEU - International Journal of Electronics and Communications, 2018, 94, 277-292.	1.7	31
75	A framework for efficient and secured mobility of IoT devices in mobile edge computing. , 2018, , .		32
76	Securing delay-sensitive cognitive radio IoT communications under reactive jamming attacks: Spectrum assignment perspective. , 2018, , .		3
77	A resource sharing platform for resource-constrained software defined cognitive radio networks. , 2018, , .		2
78	Opportunistic guard-band-aware spectrum assignment under dynamically varying channel conditions: Optimization framework. , 2018, , .		2
79	Spectrum Sensing in Full-Duplex Cognitive Radio Networks Under Hardware Imperfections. IEEE Transactions on Vehicular Technology, 2017, 66, 2072-2084.	3.9	41
80	A Novel Demultiplexing Design for Coarse WDM: Exploiting Material Dispersion. Journal of Optical Communications, 2017, 38, .	4.0	1
81	MUMBA: Multi-unit multi-broker auctions for CRNs. , 2017, , .		0
82	Security-aware channel assignment in IoT-based cognitive radio networks for time-critical applications. , 2017, , .		17
83	A routing scheme for Cognitive Radio networks with Self-Interference Suppression capabilities. , 2017, , .		6
84	Performance study of multiâ€hop communication systems with decodeâ€andâ€forward relays over fading channels. IET Communications, 2017, 11, 1641-1648.	1.5	4
85	Opportunistic Relaying Protocol for Device-to-Device Communication with Cognitive Radio Capability. , 2017, , .		1
86	Adaptive quorum-based channel-hopping distributed coordination scheme for cognitive radio networks. , 2017, , .		1
87	Event-driven hybrid MAC protocol for a two-tier cognitive wireless sensor network: design and implementation. International Journal of High Performance Computing and Networking, 2016, 9, 271.	0.4	6
88	An opportunistic guard-band-aware channel assignment: A batch-based approach. , 2016, , .		3
89	On the continuous coverage problem for a swarm of UAVs. , 2016, , .		57
90	Leveraging Software-Defined-Networking for Energy Optimisation in Mobile-Cloud-Computing. Procedia Computer Science, 2016, 94, 479-484.	1.2	3

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91	On the effects of I/Q imbalance on sensing performance in full-duplex cognitive radios. , 2016, , .		3
92	On the effects of I/Q imbalance on sensing performance in full-duplex cognitive radios. , 2016, , .		3
93	Minimum spanning tree-based multicast routing protocol for dynamic spectrum access networks: A multi-layer probabilistic approach. , 2016, , .		7
94	Efficient beamforming in multi-cell multi-antenna networks: Exploiting network duality. , 2016, , .		1
95	Energy Optimisation for Mobile Device Power Consumption: A Survey and a Unified View of Modelling for a Comprehensive Network Simulation. Mobile Networks and Applications, 2016, 21, 575-588.	2.2	12
96	Virtualization-based Cognitive Radio Networks. Journal of Systems and Software, 2016, 117, 15-29.	3.3	6
97	A Batch-Based MAC Design With Simultaneous Assignment Decisions for Improved Throughput in Guard-Band-Constrained Cognitive Networks. IEEE Transactions on Communications, 2016, 64, 1143-1152.	4.9	22
98	Efficient Resource Allocation for Multicell Heterogeneous Cognitive Networks With Varying Spectrum Availability. IEEE Transactions on Vehicular Technology, 2016, 65, 6628-6635.	3.9	19
99	Software Defined Cognitive Radio Network Framework. International Journal of Grid and High Performance Computing, 2015, 7, 15-31.	0.7	11
100	A Masters Programme in telecommunications management â€“ demand-based curriculum design. European Journal of Engineering Education, 2015, 40, 267-284.	1.5	1
101	A Two-Level Cluster-Based Cognitive Radio Sensor Network: System Architecture, Hardware Design, and Distributed Protocols. , 2015, , .		4
102	Spread spectrum-based coordination design for spectrum-agile wireless ad hoc networks. Journal of Network and Computer Applications, 2015, 57, 192-201.	5.8	5
103	Spread Spectrum-Based Coordination Design for Multi-Hop Spectrum-Agile Wireless Networks. , 2015, , .		1
104	Cooperative weighted-fair control strategy for spectrum self-coexistence in multi-cell WRAN systems. Computers and Electrical Engineering, 2015, 46, 65-77.	3.0	3
105	Iterative beamforming algorithm for improved throughput in multiâ€cell multiâ€antenna wireless systems. IET Communications, 2015, 9, 1619-1626.	1.5	7
106	Cooperative packet-forwarding mechanism for throughput improvement in multi-channel wireless networks. Computers and Electrical Engineering, 2015, 48, 203-213.	3.0	1
107	Cooperative OFDM-Based Virtual Clustering Scheme for Distributed Coordination in Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 3624-3632.	3.9	25
108	Software defined framework for multi-cell Cognitive Radio Networks. , 2014, , .		10

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109	Joint Caching and Routing for Greening Computer Networks with Renewable Energy Sources. , 2014, , .		8
110	Cluster-based control channel design using discrete OFDM for opportunistic spectrum access ad hoc networks. , 2014, , .		2
111	A cross-layer video multicasting routing protocol for cognitive radio networks. , 2014, , .		13
112	Traffic-driven exclusive resource sharing algorithm for mitigating self-coexistence problem in WRAN systems. , 2014, , .		10
113	SD-CRN: Software Defined Cognitive Radio Network Framework. , 2014, , .		25
114	IMPORTANT: Integrating Multi-rate caPability into Opportunistic Routing in uwb-based Ad hoc NeTworks. Computer Communications, 2014, 53, 84-94.	3.1	5
115	Spectrum Bonding and Aggregation with Guard-Band Awareness in Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2014, 13, 569-581.	3.9	57
116	Review and redesign of the curriculum of a Masters programme in telecommunications engineering â€“ Towards an outcome-based approach. European Journal of Engineering Education, 2013, 38, 194-210.	1.5	9
117	Traffic-aware self-coexistence management in IEEE 802.22 WRAN systems. , 2013, , .		12
118	Resource management with probabilistic performance guarantees in opportunistic networks. AEU - International Journal of Electronics and Communications, 2013, 67, 632-636.	1.7	7
119	Opportunistic medium access control for maximizing packet delivery rate in dynamic access networks. Journal of Network and Computer Applications, 2013, 36, 523-532.	5.8	28
120	Quality- and availability-aware spectrum sharing for improved packet delivery in spectrum-agile networks. , 2012, , .		3
121	Probabilistic spectrum assignment for QoS-constrained cognitive radios with parallel transmission capability. , 2012, , .		6
122	Probabilistic quality-aware routing in cognitive radio networks under dynamically varying spectrum opportunities. Computers and Electrical Engineering, 2012, 38, 1731-1744.	3.0	21
123	An Efficient Guard-Band-Aware Multi-Channel Spectrum Sharing Mechanism for Dynamic Access Networks. , 2011, , .		12
124	Adaptive power-controlled MAC protocols for improved throughput in hardware-constrained cognitive radio networks. Ad Hoc Networks, 2011, 9, 1127-1139.	3.4	17
125	Throughput-oriented channel assignment for opportunistic spectrum access networks. Mathematical and Computer Modelling, 2011, 53, 2108-2118.	2.0	30
126	Opportunistic Routing in Cognitive Radio Networks: Exploiting Spectrum Availability and Rich Channel Diversity. , 2011, , .		23

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127	Channel Assignment and Access Protocols for Spectrum-Agile Networks with Single-Transceiver Radios. Lecture Notes in Computer Science, 2011, , 178-197.	1.0	1
128	Cooperative Adaptive Spectrum Sharing in Cognitive Radio Networks. IEEE/ACM Transactions on Networking, 2010, 18, 1181-1194.	2.6	73
129	Rate-Maximization Channel Assignment Scheme for Cognitive Radio Networks. , 2010, , .		30
130	Dynamic Spectrum Access Protocol Without Power Mask Constraints. , 2009, , .		12
131	MAC Protocol for Opportunistic Cognitive Radio Networks with Soft Guarantees. IEEE Transactions on Mobile Computing, 2009, 8, 1339-1352.	3.9	138
132	Channel access protocols for multihop opportunistic networks: challenges and recent developments. IEEE Network, 2009, 23, 14-19.	4.9	56
133	Distance- and Traffic-Aware Channel Assignment in Cognitive Radio Networks. , 2008, , .		29
134	Adaptive cross-layer MAC design for improved energy-efficiency in multi-channel wireless sensor networks. Ad Hoc Networks, 2007, 5, 844-854.	3.4	18
135	Wavelength-division demultiplexing using graded-index planar structures. Journal of Lightwave Technology, 2006, 24, 2401-2408.	2.7	9
136	WSN11-5: Cross-layer Optimization of a CSMA Protocol with Adaptive Modulation for Improved Energy Efficiency in Wireless Sensor Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	5