

# Essaid Sabir

## List of Publications by Year in descending order

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Version: 2024-02-01

150  
papers

996  
citations

758635

12  
h-index

839053

18  
g-index

154  
all docs

154  
docs citations

154  
times ranked

920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Urban Mobility: When Mobility Systems Meet Smart Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6222-6239.	4.7	21
2	Multi-Layered Energy Efficiency in LoRa-WAN Networks: A Tutorial. IEEE Access, 2022, 10, 9198-9231.	2.6	20
3	Initial Access & Beam Alignment for mmWave and Terahertz Communications. IEEE Access, 2022, 10, 35363-35397.	2.6	17
4	Lightweight Computer Vision System for Automated Weed Mapping. , 2022, , .		2
5	An Agile AI and IoT-Augmented Smart Farming: A Cost-Effective Cognitive Weather Station. Agriculture (Switzerland), 2022, 12, 35.	1.4	19
6	Traffic-Aware Mean-Field Power Allocation for Ultradense NB-IoT Networks. IEEE Internet of Things Journal, 2022, 9, 21811-21824.	5.5	2
7	Grant-Free Power Allocation for Ultra-Dense IoT: A Mean Field Perspective. , 2022, , .		0
8	The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. IEEE Internet of Things Journal, 2021, 8, 3743-3757.	5.5	8
9	D2D Mobile Relaying Meets NOMA Part I: A Biform Game Analysis. Sensors, 2021, 21, 702.	2.1	6
10	IHEE: An Improved Hybrid Energy Efficient Algorithm for WSN. Advances in Intelligent Systems and Computing, 2021, , 283-298.	0.5	2
11	Characterizing Antennas™ Radiation Pattern Using Bernoulli Lemniscates. Advances in Intelligent Systems and Computing, 2021, , 204-213.	0.5	1
12	Bag-of-visual-words-augmented Histogram of Oriented Gradients for efficient weed detection. Biosystems Engineering, 2021, 202, 179-194.	1.9	20
13	D2D Mobile Relaying Meets NOMA Part II: A Reinforcement Learning Perspective. Sensors, 2021, 21, 1755.	2.1	4
14	Networking research for the Arab world. Communications of the ACM, 2021, 64, 114-119.	3.3	2
15	EACA: An Energy Aware Clustering Algorithm for Wireless IoT Sensors. , 2021, , .		4
16	Klm-based Profiling and Preventing Security Attacks for Cloud Computing: A Comparative Study. , 2021, , .		3
17	Throughput-Delay Tradeoffs for Slotted-Aloha-based LoRaWAN Networks. , 2021, , .		3
18	Channel-Aware Satisfactory Learning for Robust QoS Self-Provisioning in 5G and Beyond. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Fog Computing for Smart Cities™ Big Data Management and Analytics: A Review. Future Internet, 2020, 12, 190.	2.4	33
20	IoT-based Low Cost Architecture for Smart Farming. , 2020, , .		10
21	D2D Mobile Relaying for Efficient Throughput-Reliability Delivering in 5G. , 2020, , .		3
22	Cost-Effective Multi-Modal Urban Transportation with Parking Selection. , 2020, , .		2
23	Combined Latency-Aware and Resource-Effective Virtual Network Function Placement. , 2020, , .		3
24	Lifetime-Efficient Indoor Guidance for Smart Parking. , 2020, , .		1
25	Occupancy-Aware Power Saving for Smart Parking IoT Sensors. , 2020, , .		3
26	Impact of sensor data on intelligent environments. Journal of Ambient Intelligence and Smart Environments, 2020, 12, 181-182.	0.8	0
27	Dynamic Multi-RAT Access for Ultra Dense 5G and Beyond: A Mean Field Perspective. , 2020, , .		1
28	Quality of Experience for Streaming Services: Measurements, Challenges and Insights. IEEE Access, 2020, 8, 13341-13361.	2.6	56
29	Dynamic Satisfactory Power Allocation for Multi-Class Ultra Dense 5G and Beyond. , 2020, , .		0
30	Combined Beam Alignment and Power Allocation for NOMA-Empowered mmWave Communications. Lecture Notes in Computer Science, 2020, , 82-95.	1.0	2
31	A distributed and collaborative localization algorithm for internet of things environments. , 2020, , .		5
32	Flexible Network Slicing Assisted 5G for Video Streaming with Effective and Efficient Isolation. , 2020, , .		1
33	A Game Theoretic Approach For Deploying Forensic Ready Systems. , 2020, , .		0
34	A Queuing Theoretic Framework for Flying Mesh Network Assisted IoT Environments. , 2019, , .		3
35	PPSA: Profiling and Preventing Security Attacks in Cloud Computing. , 2019, , .		2
36	Beam Alignment Game for Self-Organized MmWave-Empowered 5G Initial Access. , 2019, , .		7

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37	RAT Association for Autonomic IoT Systems. IEEE Network, 2019, 33, 116-123.	4.9	8
38	Congestion Awareness Meets Zone-Based Pricing Policies for Efficient Urban Parking. IEEE Access, 2019, 7, 161510-161523.	2.6	9
39	Estimating Parking Time Under Batch Arrival and Dynamic Pricing Policy. , 2019, , .		4
40	A Scalable Slotted Aloha for Massive IoT: A Throughput Analysis. , 2019, , .		3
41	Strategic Availability and Cost-Effective UAV-Based Flying Access Networks: S-Modular Game Analysis. Mobile Information Systems, 2019, 2019, 1-11.	0.4	7
42	A matching-game-based satisfactory spectrum leasing for cognitive-radio-empowered 5G. International Journal of Autonomous and Adaptive Communications Systems, 2019, 12, 129.	0.2	0
43	Klm-PPSA: Klm-based profiling and preventing security attacks for cloud environments: Invited Paper. , 2019, , .		4
44	A Mean-Field Framework for Energy-Efficient Power Control in Massive IoT Environments. , 2019, , .		2
45	A Volunteer Dilemma Framework for Mobile Live Streaming. , 2019, , .		0
46	Satisfactory content delivery scheme for QoS provisioning in delay tolerant networks. International Journal of Communication Systems, 2019, 32, e3844.	1.6	0
47	A signaling game-based approach for Data-as-a-Service provisioning in IoT-Cloud. Future Generation Computer Systems, 2019, 92, 1040-1050.	4.9	13
48	Solving Startup-Delay-QoE Dilemma for Video Streaming Services in 5G Networks. Advances in Intelligent Systems and Computing, 2019, , 758-770.	0.5	3
49	AMBAS: an autonomous multimodal biometric authentication system. International Journal of Autonomous and Adaptive Communications Systems, 2019, 12, 187.	0.2	7
50	A Flying Mesh Network for Ubiquitous Network Access in IoT Environments. Advances in Intelligent Systems and Computing, 2019, , 835-843.	0.5	0
51	A matching-game-based satisfactory spectrum leasing for cognitive-radio-empowered 5G. International Journal of Autonomous and Adaptive Communications Systems, 2019, 12, 129.	0.2	0
52	BulkSort: System Design and Parallel Hardware Implementation Considerations. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	0
53	A Quitting Game Framework for Self-Organized D2D Mobile Relaying in 5G. , 2018, , .		0
54	Energy-Aware Mode Selection and Power Control in D2D-Enabled HetNets. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Availability and Pricing Combined Framework for Rivalry Flying Access Network Providers. , 2018, , .		0
56	A Leasing-based Spectrum Sharing Framework for Cognitive Radio Networks. , 2018, , .		1
57	A H-Slotted Patch Antenna Array for 79 GHz Automotive Radar Sensors. , 2018, , .		0
58	Enhanced Approach for Weeds Species Detection Using Machine Vision. , 2018, , .		10
59	Benchmarking Big Data OLAP NoSQL Databases. Lecture Notes in Computer Science, 2018, , 82-94.	1.0	4
60	Hierarchical Availability in Flying Radio Access Networks as a Cournot Duopoly. Lecture Notes in Computer Science, 2018, , 257-266.	1.0	1
61	Turning Competition Onto Cooperation in D2D Communications: A Quitting Game Perspective. , 2018, , .		1
62	WINCOM 2018 Welcome Message. , 2018, , .		0
63	Energy-throughput tradeoffs in ubiquitous flying radio access network for IoT. , 2018, , .		5
64	GreenTech 2018 Message from the Technical Program Chair. , 2018, , .		0
65	Data Gathering and Energy Transfer Dilemma in UAV-Assisted Flying Access Network for IoT. Sensors, 2018, 18, 1519.	2.1	28
66	Lightweight energy-cost-efficient RAT association for Internet of Things. , 2018, , .		5
67	Tradeoffs for Data Collection and Wireless Energy Transfer Dilemma in IoT Environments. , 2018, , .		5
68	Information-centric networking meets delay tolerant networking: Beyond edge caching. , 2018, , .		3
69	Robust fully distributed file caching for delay-tolerant networks: A reward-based incentive mechanism. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770014.	1.3	0
70	Self-Organized Connected Objects: Rethinking QoS Provisioning for IoT Services. , 2017, 55, 41-47.		20
71	Evolutionary dynamics of cooperative sensing in cognitive radios under partial system state information. , 2017, , .		0
72	A fully distributed satisfactory power control for QoS self-provisioning in 5G networks. , 2017, , .		1

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73	AMBAS: An Autonomous Multimodal Biometric Authentication System. , 2017, , .		5
74	An asymmetrical nash bargaining for adaptive and automated context negotiation in pervasive environments. , 2017, , .		0
75	The right content for the right relay in self-organizing delay tolerant networks: A matching game perspective. , 2017, , .		5
76	QoS-Aware Tactical Power Control for 5G Networks. Lecture Notes in Computer Science, 2017, , 25-37.	1.0	0
77	Multi-homing as an Enabler for 5G Networks: Survey and Open Challenges. Lecture Notes in Electrical Engineering, 2017, , 347-356.	0.3	5
78	Self-organized device-to-device communications as a non-cooperative quitting game. , 2017, , .		3
79	YouTube context-awareness to enhance Quality of experience between yesterday, today and tomorrow: Survey. , 2017, , .		1
80	Group vertical handoff management in heterogeneous networks. Wireless Communications and Mobile Computing, 2016, 16, 1256-1270.	0.8	10
81	A college admissions game for content caching in heterogeneous delay tolerant networks. , 2016, , .		9
82	A reward-based incentive mechanism for file caching in delay tolerant networks. , 2016, , .		3
83	Towards a Strategic Satisfactory Sensing for QoS Self-Provisioning in Cognitive Radio Networks. , 2016, , .		0
84	Towards Improving Energy Efficiency of Mobiles in Hyper Dense LTE Small-Cells Deployments. , 2016, , .		1
85	A Markov Chain Model for Integrating Context in Recommender Systems. , 2016, , .		3
86	A green coalitional store-and-forward scheme for delay tolerant networks. , 2016, , .		3
87	A literature review on Smart Cities: Paradigms, opportunities and open problems. , 2016, , .		92
88	A context-aware Multimodal Biometric Authentication for cloud-empowered systems. , 2016, , .		13
89	A green strategic activity scheduling for UAV networks: A sub-modular game perspective. , 2016, 54, 58-64.		110
90	Achieving QoS in Virtual MIMO systems: a satisfaction equilibrium analysis. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	4

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91	Meeting Always-Best-Connected paradigm in heterogeneous vehicular networks: A graph theory and a signaling game analysis. Vehicular Communications, 2016, 5, 1-8.	2.7	19
92	A non-cooperative file caching for delay tolerant networks: A reward-based incentive mechanism. , 2016, , .		7
93	Exploiting multi-homing in hyper dense LTE small-cells deployments. , 2016, , .		5
94	A game theoretic approach for an hybrid overlay-underlay spectrum access mode. , 2016, , .		7
95	A hierarchical caching game for message relaying in delay tolerant networks. , 2016, , .		2
96	Identifying a volunteer-like dilemma in cooperative sensing-empowered cognitive radio networks. , 2016, , .		2
97	Energy optimization through duty cycling scheduling in mobile social networks: A non-cooperative game theory approach. , 2016, , .		0
98	Telecommunication market share game: Inducing boundedly rational consumers via price misperception. , 2016, , .		4
99	A Bargaining Nash Game Based Adaptive Negotiation of Context Level Agreements for Pervasive Systems. Lecture Notes in Electrical Engineering, 2016, , 91-104.	0.3	1
100	Generalized Slotted Aloha Revisited: A Throughput and Stability Analysis. Lecture Notes in Electrical Engineering, 2016, , 3-15.	0.3	0
101	A Pricing-Based Spectrum Leasing Framework with Adaptive Distributed Learning for Cognitive Radio Networks. Lecture Notes in Electrical Engineering, 2016, , 39-51.	0.3	2
102	Towards a Zero-Failure Distributed Access for Wireless Collision Channels. Lecture Notes in Electrical Engineering, 2016, , 63-76.	0.3	2
103	A new optimal hybrid spectrum access in cognitive radio: Overlay-underlay mode. , 2015, , .		13
104	A Signaling Game-Based Mechanism to Meet Always Best Connected Service in VANETs. , 2015, , .		3
105	Multi-factor authentication based on multimodal biometrics (MFA-MB) for Cloud Computing. , 2015, , .		15
106	Fountain-code-enabled DCF for optimazing throughput in wireless sensors. , 2015, , .		1
107	Coalitional Game Theory for Cooperative Transmission in VANET: Internet Access via Fixed and Mobile Gateways. Lecture Notes in Computer Science, 2015, , 490-495.	1.0	1
108	A ferry-assisted solution for forwarding function in Wireless Sensor Networks. Pervasive and Mobile Computing, 2015, 22, 126-135.	2.1	12

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109	A coalitional-game-based incentive mechanism for content caching in heterogeneous Delay Tolerant Networks. , 2015, , .		11
110	On improving network capacity for downlink and uplink of two-tier LTE-FDD networks. , 2015, , .		2
111	A distributed open-close access for Small-Cell networks: A random matrix game analysis. , 2015, , .		7
112	Data traffic-based analysis of delay and energy consumption in cognitive radio networks with and without resource reservation. International Journal of Communication Systems, 2015, 28, 1316-1328.	1.6	14
113	A decentralized network selection algorithm for group vertical handover in heterogeneous networks. , 2014, , .		13
114	Telecommunications market share game with ambiguous pricing strategies. , 2014, , .		5
115	An information-jamming-based incentive mechanism for channel selection. , 2014, , .		0
116	ZigZag decoding-enabled multi-hop ad hoc networks: Taking benefit from collisions. , 2014, , .		2
117	A Signaling Game-Based Mechanism to Meet Always Best Connected Service in VANETs. , 2014, , .		0
118	Virtual MIMO systems: A game theoretical approach. , 2014, , .		0
119	Towards a ZigZag-decoding-enabled distributed coordination function for WLANs. , 2014, , .		1
120	Green opportunistic access for cognitive radio networks: A minority game approach. , 2014, , .		16
121	The greening of spectrum sensing: a minority game-based mechanism design. , 2014, 52, 150-156.		11
122	Achieving always Best Connected service for a mobile user in VANET. , 2014, , .		1
123	Providing Always Best Connected Service in VANET with Complete and Partial Information. , 2014, , .		2
124	A tax-inspired mechanism design to achieve QoS in VMIMO systems: Give to receive!. , 2014, , .		2
125	A ferry-assisted solution for forwarding function in Wireless Sensor Networks. , 2014, , .		2
126	Modeling and evaluating a cloudlet-based architecture for Mobile Cloud Computing. , 2014, , .		12



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127	Ferry-based architecture for Participatory Sensing. , 2014, , .		0
128	A congestion game-based routing algorithm for communicating VANETs. , 2014, , .		2
129	A Stochastic Game Analysis of the Binary Exponential Backoff Algorithm with Multi-Power Diversity and Transmission Cost. Mathematical Modelling and Algorithms, 2013, 12, 291-309.	0.5	6
130	A new crosslayer architecture for service differentiation in Wireless Sensor Networks. , 2013, , .		0
131	Design of an annular ring Ferry-assisted topology for Wireless Sensor Networks. , 2013, , .		7
132	A probabilistic cross-layered call admission control for multi-hop ad hoc networks. , 2013, , .		1
133	A Team Study of a Multiple-Power Wireless Random Channel Access Mechanism with Capture Effect. Mathematical Problems in Engineering, 2013, 2013, 1-16.	0.6	4
134	Equilibrium sensing time for distributed opportunistic access incognitive radio networks. , 2013, , .		3
135	Towards a Complete Multi-layered Framework for IEEE-802.11e Multi-hop Ad Hoc Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 32-48.	0.2	0
136	Joint Price and QoS Market Share Game with Adversarial Service Providers and Migrating Customers. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 642-657.	0.2	11
137	New Insights from a Bounded Rationality Analysis for Strategic Price-QoS War. , 2012, , .		11
138	Accumulative interference removal in multi-hop linear and circular ad hoc WLANs. , 2012, , .		1
139	Joint strategic spectrum sensing and opportunistic access for cognitive radio networks. , 2012, , .		9
140	New insights from a delay analysis for cognitive radio networks with and without reservation. , 2012, , .		10
141	Hierarchy sustains partial cooperation and induces a Braess-like paradox in slotted aloha-based networks. Computer Communications, 2012, 35, 273-286.	3.1	10
142	Achieving energy efficient equilibrium in power diversity-enabled collision channels. , 2011, , .		0
143	Asymptotic delay analysis and timeout-based admission control for ad hoc wireless networks with asymmetric users. Computer Communications, 2010, 33, 2057-2069.	3.1	5
144	A fountain code-based fair scheme for multi-hop ad hoc networks. , 2010, , .		1

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145	Modeling Slotted Aloha as a Stochastic Game with Random Discrete Power Selection Algorithms. Journal of Computer Systems, Networks, and Communications, 2009, 2009, 1-28.	1.2	9
146	A hierarchical slotted aloha game. , 2009, , .		3
147	Stochastic learning solution for constrained Nash Equilibrium throughput in non saturated wireless collision channels. , 2009, , .		11
148	An end-to-end QoS framework for IEEE 802.16 and ad-hoc integrated networks. , 2009, , .		4
149	Asymptotic Delay Analysis and Timeout-Based Admission Control for Ad Hoc Wireless Networks. Lecture Notes in Computer Science, 2009, , 83-97.	1.0	3
150	On Extending Coverage of UMTS Networks Using an Ad-Hoc Network with Weighted Fair Queueing. Lecture Notes in Computer Science, 2008, , 135-148.	1.0	3