

Gianluigi Ferrari

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/807776/publications.pdf>

Version: 2024-02-01

254
papers

4,311
citations

172443

29
h-index

182417

51
g-index

266
all docs

266
docs citations

266
times ranked

3791
citing authors

#	ARTICLE	IF	CITATIONS
1	A Scalable and Self-Configuring Architecture for Service Discovery in the Internet of Things. IEEE Internet of Things Journal, 2014, 1, 508-521.	8.7	179
2	IoT-OAS: An OAuth-Based Authorization Service Architecture for Secure Services in IoT Scenarios. IEEE Sensors Journal, 2015, 15, 1224-1234.	4.7	178
3	IoTChain: A blockchain security architecture for the Internet of Things. , 2018, , .		151
4	Optimal Transmit Power in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2006, 5, 1432-1447.	5.8	120
5	LoRaFarM: A LoRaWAN-Based Smart Farming Modular IoT Architecture. Sensors, 2020, 20, 2028.	3.8	102
6	Reduced-state BCJR-type algorithms. IEEE Journal on Selected Areas in Communications, 2001, 19, 848-859.	14.0	100
7	IoT-Enabled Smart Sustainable Cities: Challenges and Approaches. Smart Cities, 2020, 3, 1039-1071.	9.4	99
8	Noncoherent iterative (turbo) decoding. IEEE Transactions on Communications, 2000, 48, 1488-1498.	7.8	94
9	Fundamental performance limits of communications systems impaired by impulse noise. IEEE Transactions on Communications, 2009, 57, 171-182.	7.8	80
10	Wireless Mesh Networking: An IoT-Oriented Perspective Survey on Relevant Technologies. Future Internet, 2019, 11, 99.	3.8	79
11	Enforcing Security Mechanisms in the IP-Based Internet of Things: An Algorithmic Overview. Algorithms, 2013, 6, 197-226.	2.1	78
12	A novel batch-based group key management protocol applied to the Internet of Things. Ad Hoc Networks, 2013, 11, 2724-2737.	5.5	76
13	From Micro to Macro IoT: Challenges and Solutions in the Integration of IEEE 802.15.4/802.11 and Sub-GHz Technologies. IEEE Internet of Things Journal, 2018, 5, 784-793.	8.7	71
14	Body-Sensor-Network-Based Kinematic Characterization and Comparative Outlook of UPDRS Scoring in Leg Agility, Sit-to-Stand, and Gait Tasks in Parkinson's Disease. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1777-1793.	6.3	69
15	New bounds for the Marcum Q-function. IEEE Transactions on Information Theory, 2002, 48, 3003-3008.	2.4	68
16	Extrinsic information in iterative decoding: a unified view. IEEE Transactions on Communications, 2001, 49, 2088-2094.	7.8	63
17	UWB-based localization in large indoor scenarios: optimized placement of anchor nodes. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 987-999.	4.7	61
18	Does the Performance of LDPC Codes Depend on the Channel?. IEEE Transactions on Communications, 2006, 54, 2129-2132.	7.8	60

#	ARTICLE	IF	CITATIONS
19	A Survey on Infrastructure-Based Vehicular Networks. <i>Mobile Information Systems</i> , 2017, 2017, 1-28.	0.6	59
20	Wireless Sensor Networks: Performance Analysis in Indoor Scenarios. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2007, 2007, 1.	2.4	54
21	The IoT hub: a fog node for seamless management of heterogeneous connected smart objects. , 2015, , .		53
22	Decentralized binary detection with noisy communication links. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2006, 42, 1554-1563.	4.7	50
23	Energy-efficient mobile target detection in Wireless Sensor Networks with random node deployment and partial coverage. <i>Pervasive and Mobile Computing</i> , 2012, 8, 429-447.	3.3	47
24	Design and evaluation of a delay-efficient RPL routing metric. , 2013, , .		47
25	Design and Deployment of an IoT Application-Oriented Testbed. <i>Computer</i> , 2015, 48, 32-40.	1.1	47
26	Data dissemination scheme for distributed storage for IoT observation systems at large scale. <i>Information Fusion</i> , 2015, 22, 16-25.	19.1	46
27	Serial concatenation of LDPC codes and differential modulations. <i>IEEE Journal on Selected Areas in Communications</i> , 2005, 23, 1758-1768.	14.0	45
28	Monitoring infants by automatic video processing: A unified approach to motion analysis. <i>Computers in Biology and Medicine</i> , 2017, 80, 158-165.	7.0	43
29	Markov Chain-based performance analysis of multihop IEEE 802.15.4 wireless networks. <i>Performance Evaluation</i> , 2009, 66, 722-741.	1.2	42
30	Toward Industry 4.0 With IoT: Optimizing Business Processes in an Evolving Manufacturing Factory. <i>Frontiers in ICT</i> , 2019, 6, .	3.6	42
31	Irresponsible forwarding. , 2008, , .		40
32	Decentralized Detection in Clustered Sensor Networks. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2011, 47, 959-973.	4.7	39
33	Low-Complexity Image Processing for Real-Time Detection of Neonatal Clonic Seizures. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 375-382.	3.2	31
34	Assigning UPDRS Scores in the Leg Agility Task of Parkinsonians: Can It Be Done Through BSN-Based Kinematic Variables?. <i>IEEE Internet of Things Journal</i> , 2015, 2, 41-51.	8.7	31
35	Censoring-Based Cooperative Spectrum Sensing with Improved Energy Detectors and Multiple Antennas in Fading Channels. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018, 54, 537-553.	4.7	30
36	LDPC Coded Modulations. <i>Signals and Communication Technology</i> , 2009, , .	0.5	29

#	ARTICLE	IF	CITATIONS
37	Information fusion for efficient target detection in large-scale surveillance Wireless Sensor Networks. Information Fusion, 2017, 38, 55-64.	19.1	29
38	Inertial BSN-Based Characterization and Automatic UPDRS Evaluation of the Gait Task of Parkinsonians. IEEE Transactions on Affective Computing, 2016, 7, 258-271.	8.3	28
39	Real-time automated detection of clonic seizures in newborns. Clinical Neurophysiology, 2014, 125, 1533-1540.	1.5	26
40	Automatic UPDRS Evaluation in the Sit-to-Stand Task of Parkinsonians: Kinematic Analysis and Comparative Outlook on the Leg Agility Task. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1-1.	6.3	25
41	Iterative Detection for Channels With Memory. Proceedings of the IEEE, 2007, 95, 1272-1294.	21.3	24
42	Fundamental Limits of Electronic Signal Processing in Direct-Detection Optical Communications. Journal of Lightwave Technology, 2007, 25, 1742-1753.	4.6	23
43	Simulating mobile and distributed systems with DEUS and ns-3. , 2013, , .		23
44	Swarm intelligent approaches to auto-localization of nodes in static UWB networks. Applied Soft Computing Journal, 2014, 25, 426-434.	7.2	23
45	On physical layer-oriented routing with power control in ad hoc wireless networks. IET Communications, 2008, 2, 306.	2.2	22
46	An Integrated Multi-Sensor Approach for the Remote Monitoring of Parkinson's Disease. Sensors, 2019, 19, 4764.	3.8	22
47	Impact of Mobility on the BER Performance of Ad Hoc Wireless Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 271-286.	6.3	21
48	Efficient Broadcasting in IEEE 802.11 Networks through Irresponsible Forwarding. , 2009, , .		21
49	An experimental model for UWB distance measurements and its application to localization problems. , 2014, , .		21
50	Lightweight multicast forwarding for service discovery in low-power IoT networks. , 2014, , .		21
51	VegIoT Garden: a modular IoT Management Platform for Urban Vegetable Gardens. , 2019, , .		21
52	Hybrid LoRa-IEEE 802.11s Opportunistic Mesh Networking for Flexible UAV Swarming. Drones, 2021, 5, 26.	4.9	21
53	Tight bounds and accurate approximations for DQPSK transmission bit error rate. Electronics Letters, 2004, 40, 1284.	1.0	20
54	Cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading under majority logic fusion. , 2013, , .		20

#	ARTICLE	IF	CITATIONS
55	A swarm-based approach to real-time 3D indoor localization: Experimental performance analysis. Applied Soft Computing Journal, 2016, 43, 489-497.	7.2	20
56	Improving UWB-Based Localization in IoT Scenarios with Statistical Models of Distance Error. Sensors, 2018, 18, 1592.	3.8	20
57	On Driver Behavior Recognition for Increased Safety: A Roadmap. Safety, 2020, 6, 55.	1.7	20
58	A simple performance analysis of RFID networks with binary tree collision arbitration. International Journal of Sensor Networks, 2008, 4, 194.	0.4	19
59	Accurate Indoor Localization with UWB Wireless Sensor Networks. , 2014, , .		19
60	Improving Quality of Experience in Future Wireless Access Networks through Fog Computing. IEEE Internet Computing, 2017, 21, 26-33.	3.3	19
61	A unified framework for finite-memory detection. IEEE Journal on Selected Areas in Communications, 2005, 23, 1697-1706.	14.0	18
62	Cross-Network Information Dissemination in Vehicular Ad hoc Networks (VANETs): Experimental Results from a Smartphone-Based Testbed. Future Internet, 2013, 5, 398-428.	3.8	18
63	Information fusion in wireless sensor networks with source correlation. Information Fusion, 2014, 15, 80-89.	19.1	18
64	Advanced Technologies for Intelligent Transportation Systems. Intelligent Systems Reference Library, 2015, , .	1.2	18
65	Decentralized Detection In Sensor Networks With Noisy Communication Links. , 2006, , 233-249.		18
66	On Linear Predictive Detection for Communications With Phase Noise and Frequency Offset. IEEE Transactions on Vehicular Technology, 2007, 56, 2073-2085.	6.3	17
67	Connectivity of ad hoc wireless networks: an alternative to graph-theoretic approaches. Wireless Networks, 2010, 16, 793-811.	3.0	17
68	Cross-network information dissemination in VANETs. , 2011, , .		17
69	Applying Security to a Big Stream Cloud Architecture for the Internet of Things. International Journal of Distributed Systems and Technologies, 2016, 7, 37-58.	0.7	17
70	Decentralised binary detection with non-constant SNR profile at the sensors. International Journal of Sensor Networks, 2008, 4, 23.	0.4	16
71	Respiratory Rate Monitoring by Video Processing Using Local Motion Magnification. , 2018, , .		16
72	A Scalable Big Stream Cloud Architecture for the Internet of Things. International Journal of Systems and Service-Oriented Engineering, 2015, 5, 26-53.	0.6	16

#	ARTICLE	IF	CITATIONS
73	Clustered Zigbee networks with data fusion: Characterization and performance analysis. Ad Hoc Networks, 2011, 9, 1083-1103.	5.5	15
74	Irresponsible AODV routing. Vehicular Communications, 2015, 2, 47-57.	4.0	15
75	Forecasting Air Temperature on Edge Devices with Embedded AI. Sensors, 2021, 21, 3973.	3.8	15
76	Improved UWB TDoA-Based Positioning Using a Single Hotspot for Industrial IoT Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 3915-3925.	11.3	15
77	Sensor Networks with IEEE 802.15.4 Systems. Signals and Communication Technology, 2011, , .	0.5	14
78	Optimized anchors placement: An analytical approach in UWB-based TDOA localization. , 2013, , .		14
79	Integration of Wi-Fi mobile nodes in a Web of Things Testbed. ICT Express, 2016, 2, 96-99.	4.8	14
80	Clustering and sensing with decentralized detection in vehicular ad hoc networks. Ad Hoc Networks, 2016, 36, 450-464.	5.5	14
81	Short-lived key management for secure communications in VANETs. , 2011, , .		13
82	Recursive analytical performance evaluation of broadcast protocols with silencing: application to VANETs. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	13
83	Clustered IEEE 802.15.4 Sensor Networks with Data Aggregation: Energy Consumption and Probability of Error. IEEE Wireless Communications Letters, 2013, 2, 70-73.	5.0	13
84	A wire-free, non-invasive, low-cost video processing-based approach to neonatal apnoea detection. , 2014, , .		13
85	Spatio-temporal video processing for respiratory rate estimation. , 2015, , .		13
86	Low-complexity UWB-based collision avoidance system for automated guided vehicles. ICT Express, 2016, 2, 53-56.	4.8	13
87	AI at the Edge: a Smart Gateway for Greenhouse Air Temperature Forecasting. , 2020, , .		13
88	Performance analysis of broadcast protocols in VANETs with Poisson vehicle distribution. , 2011, , .		12
89	Adaptive Iterative Detection for the Phase-Uncertain Channel: Limited-Tree-Search Versus Truncated-Memory Detection. IEEE Transactions on Vehicular Technology, 2004, 53, 433-442.	6.3	11
90	Extraction of video features for real-time detection of neonatal seizures. , 2011, , .		11

#	ARTICLE	IF	CITATIONS
91	Particle Swarm Optimization for Auto-localization of Nodes in Wireless Sensor Networks. Lecture Notes in Computer Science, 2013, , 456-465.	1.3	11
92	A Graph-Based Cloud Architecture for Big Stream Real-Time Applications in the Internet of Things. Communications in Computer and Information Science, 2015, , 91-105.	0.5	11
93	DINAS: A Lightweight and Efficient Distributed Naming Service for All-IP Wireless Sensor Networks. IEEE Internet of Things Journal, 2017, 4, 670-684.	8.7	11
94	Optimizing channel coding for orthogonal multiple access schemes with correlated sources. , 2009, , .		10
95	Linking UPDRS Scores and Kinematic Variables in the Leg Agility Task of Parkinsonians. , 2014, , .		10
96	Route reservation in ad hoc networks: is it a good idea?. , 0, , .		9
97	Randomized network coding in distributed storage systems with layered overlay. , 2011, , .		9
98	Improved ultra wideband-based tracking of twin-receiver automated guided vehicles. Integrated Computer-Aided Engineering, 2012, 19, 3-22.	4.6	9
99	Cross-layer design and analysis of WSN-based mobile target detection systems. Ad Hoc Networks, 2013, 11, 712-732.	5.5	9
100	Maximum-likelihood detection of neonatal clonic seizures by video image processing. , 2014, , .		9
101	Optimizing Detection Rate and Characterization of Subtle Paroxysmal Neonatal Abnormal Facial Movements with Multi-Camera Video-Electroencephalogram Recordings. Neuropediatrics, 2016, 47, 169-174.	0.6	9
102	Extending the Lifetime of Sensor Networks through Adaptive Reclustering. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	2.4	8
103	Post-detection nonlinear distortion for efficient MLSD in optical links. Optics Express, 2007, 15, 11750.	3.4	8
104	Density evolution-based analysis and design of LDPC codes with a priori information. , 2010, , .		8
105	Impact of the environment and the topology on the performance of hierarchical body area networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	8
106	Design and experimental performance analysis of a B.A.T.M.A.N.-based double Wi-Fi interface mesh network. Future Generation Computer Systems, 2019, 92, 593-603.	7.5	8
107	Ultrasonic-Based Environmental Perception for Mobile 5G-Oriented XR Applications. Sensors, 2021, 21, 1329.	3.8	8
108	Adjacency Matrix-Based Transmit Power Allocation Strategies in Wireless Sensor Networks. Sensors, 2009, 9, 5390-5422.	3.8	7

#	ARTICLE	IF	CITATIONS
109	Primary Exclusive Region and Throughput of Cognitive Dual-Polarized Networks. , 2010, , .		7
110	Low-complexity image processing for real-time detection of neonatal clonic seizures. , 2010, , .		7
111	Decentralized Detection in IEEE 802.15.4 Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	7
112	Engineering energy-efficient target detection applications in Wireless Sensor Networks. , 2010, , .		7
113	On the characterization of Leg Agility in patients with Parkinson's Disease. , 2013, , .		7
114	Performance of MRC fusion-based cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading channels. , 2013, , .		7
115	Genetic Centralized Dynamic Clustering in Wireless Sensor Networks. IFIP Advances in Information and Communication Technology, 2015, , 503-511.	0.7	7
116	Impact of onâ€body IMU placement on inertial navigation. IET Wireless Sensor Systems, 2018, 8, 3-9.	1.7	7
117	A Wave-Based Request-Response Protocol for Latency Minimization in WSNs. IEEE Internet of Things Journal, 2019, 6, 7971-7979.	8.7	7
118	DiRPL: A RPL-Based Resource and Service Discovery Algorithm for 6LoWPANs. Applied Sciences (Switzerland), 2019, 9, 33.	2.5	7
119	Internet of Things on Power Line Communications: An Experimental Performance Analysis. Energy Systems in Electrical Engineering, 2019, , 465-498.	0.7	7
120	Route Reservation in Ad Hoc Wireless Networks. IEEE Transactions on Mobile Computing, 2007, 6, 56-71.	5.8	6
121	On the effects of mobility for efficient broadcast data dissemination in I2V networks. , 2010, , .		6
122	Video processing-based detection of neonatal seizures by trajectory features clustering. , 2012, , .		6
123	Majority logic fusion of censored decisions in wireless sensor networks with Rayleigh fading. , 2012, , .		6
124	Batch-based group key management with shared key derivation in the Internet of Things. , 2013, , .		6
125	Echo cancellation in a Power Line modem in the presence of abrupt channel variations. , 2014, , .		6
126	A novel weight reset strategy for the LMS algorithm subject to abrupt channel variations. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
127	Markov chain modeling and simulation of breathing patterns. Biomedical Signal Processing and Control, 2017, 33, 245-254.	5.7	6
128	I2V Highway and Urban Vehicular Networks: A Comparative Analysis of the Impact of Mobility on Broadcast Data Dissemination. Journal of Communications, 2011, 6, .	1.6	6
129	Linear predictive receivers for phase-uncertain channels. , 2003, , .		5
130	Markov chain-based performance evaluation of IEEE 802.15.4 multihop wireless sensor networks. , 2008, , .		5
131	A simple information-theoretic analysis of clustered sensor networks with decentralized detection. IEEE Communications Letters, 2010, 14, 560-562.	4.1	5
132	Cross-layering between physical layer, medium access control, and routing in wireless ad-hoc networks. International Journal of Ad Hoc and Ubiquitous Computing, 2012, 9, 159.	0.5	5
133	On spectrum sensing in cognitive radio CDMA networks with beamforming. Physical Communication, 2013, 9, 73-87.	2.1	5
134	RAWMAC: A routing aware wave-based MAC protocol for WSNs. , 2014, , .		5
135	Cognitive radio CDMA networking with spectrum sensing. International Journal of Communication Systems, 2014, 27, 1582-1600.	2.5	5
136	Respiratory rate monitoring by maximum likelihood video processing. , 2016, , .		5
137	SmartCED: An Android application for neonatal seizures detection. , 2016, , .		5
138	Connected Vehicles: Applications and Communication Challenges. Mobile Information Systems, 2017, 2017, 1-2.	0.6	5
139	Virtual Replication of IoT Hubs in the Cloud: A Flexible Approach to Smart Object Management. Journal of Sensor and Actuator Networks, 2018, 7, 16.	3.9	5
140	Robust UWB-Based Localization with Application to Automated Guided Vehicles. Advanced Intelligent Systems, 2021, 3, 2000083.	6.1	5
141	Cluster-Based Irresponsible Forwarding. , 2010, , 59-68.		5
142	D4V: a peer-to-peer architecture for data dissemination in smartphone-based vehicular applications. PeerJ Computer Science, 0, 1, e15.	4.5	5
143	On Trellis-Based Truncated-Memory Detection. IEEE Transactions on Communications, 2005, 53, 1462-1476.	7.8	4
144	A Communication-Theoretic Approach to Ad Hoc Wireless Networking. , 2006, , .		4

#	ARTICLE	IF	CITATIONS
145	Fundamental limits of electronic dispersion compensation in optical communications with direct photodetection. Electronics Letters, 2006, 42, 874.	1.0	4
146	Feedback Power Control Strategies in Wireless Sensor Networks with Joint Channel Decoding. Sensors, 2009, 9, 8776-8809.	3.8	4
147	Detection by multiple trellises. IEEE Transactions on Communications, 2009, 57, 726-737.	7.8	4
148	Probabilistic Coexistence and Throughput of Cognitive Dual-Polarized Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	4
149	Optimum Topology in Clustered IEEE 802.15.4 Sensor Networks with Decentralized Detection. , 2011, , .		4
150	Simple and robust BSN-based activity classification. , 2011, , .		4
151	Data storage and retrieval with RPL routing. , 2013, , .		4
152	DINAS: A distributed naming service for all-IP wireless sensor networks. , 2014, , .		4
153	Orthogonal Multiple Access With Correlated Sources: Achievable Region and Pragmatic Schemes. IEEE Transactions on Communications, 2014, 62, 2531-2543.	7.8	4
154	DiSIF: A Distance-Based Silencing Technique for Multi-Hop Broadcast Communications in Pedestrian Ad-Hoc Networks. IEEE Transactions on Mobile Computing, 2016, 15, 2706-2718.	5.8	4
155	A Novel Step Detection and Step Length Estimation Algorithm for Hand-held Smartphones. , 2018, , .		4
156	Embedded Artificial Intelligence: The ARTEMIS Vision. Computer, 2020, 53, 65-69.	1.1	4
157	Cooperative Spectrum Sensing with Censoring of Cognitive Radios in Fading Channel Under Majority Logic Fusion. Signals and Communication Technology, 2014, , 133-161.	0.5	4
158	Linear programming-based optimization of the distance spectrum of linear block codes. IEEE Transactions on Information Theory, 2003, 49, 1794-1800.	2.4	3
159	Decoding and Fusion in Sensor Networks with Noisy Observations and Communications. , 2008, , .		3
160	Performance Evaluation of Cognitive Radio CDMA Networks with Spectrum Sensing. , 2010, , .		3
161	Distributed detection with censoring of sensors in Rayleigh faded channel. , 2011, , .		3
162	Clustered vehicular networks: Decentralized detection “on the move”. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
163	On Non-Cooperative Block-Faded Orthogonal Multiple Access Schemes with Correlated Sources. IEEE Transactions on Communications, 2011, 59, 1916-1926.	7.8	3
164	Fingerprinting-based wireless 3D localization for motion capture applications. , 2011, , .		3
165	Comparative investigation of single-hop and multi-hop broadcast strategies for information dissemination in VANETs. , 2011, , .		3
166	Decoding and Fusion in Distributed Detection Schemes with Unreliable Communications. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 16-26.	4.7	3
167	Sporadic decentralized resource maintenance for P2P distributed storage networks. Journal of Parallel and Distributed Computing, 2014, 74, 2029-2038.	4.1	3
168	Phase noise compensation for dually-polarized systems with independent transmission streams. , 2015, , .		3
169	Combining geo-referencing and network coding for distributed large-scale information management. Concurrency Computation Practice and Experience, 2015, 27, 3295-3315.	2.2	3
170	Accurate gait analysis in post-stroke patients using a single inertial measurement unit. , 2016, , .		3
171	On single sensor-based inertial navigation. , 2016, , .		3
172	Maximum likelihood localization: When does it fail?. ICT Express, 2016, 2, 10-13.	4.8	3
173	Iterative Synchronization for Dually-Polarized Independent Transmission Streams. IEEE Transactions on Communications, 2017, 65, 2534-2542.	7.8	3
174	Low-Complexity Inertial Sensor-based Characterization of the UPDRS Score in the Gait Task of Parkinsonians. , 2014, , .		3
175	Simulation-assisted Analysis and Design of STP-based Networks. , 2009, , .		3
176	A Modular Multi-interface Gateway for Heterogeneous IoT Networking. , 2020, , .		3
177	High-SNR mutual information of dense constellations. , 2005, , .		2
178	A novel class of low-complexity SISO algorithms for phase-uncertain communications. , 2005, , .		2
179	From Information Rate Computation to Communication System Design. , 2007, , .		2
180	State-Complexity Reduction in MLSD Receivers for Optical Communications With Direct Photodetection. Journal of Lightwave Technology, 2008, 26, 3497-3508.	4.6	2

#	ARTICLE	IF	CITATIONS
181	A Multi-Dimensional Characterization of Clustered Zigbee Networks. , 2008, , .		2
182	Multihop IEEE 802.15.4 Wireless Networks With Finite Node Buffers: Markov Chain-Based Analysis. , 2008, , .		2
183	Direct-Detection Optical DPSK. , 2008, , .		2
184	Polarization orthogonality for the co-existence of wideband fading cognitive networks. , 2010, , .		2
185	Low-Complexity One-Dimensional Edge Detection in Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	2
186	Low-complexity in-sensor audio detection with experimental validation. , 2010, , .		2
187	Accurate performance bounds for target detection in WSNs with deterministic node placement. , 2010, , .		2
188	Distributed detection using MRC with censored sensors and rayleigh faded communications. , 2011, , .		2
189	Investigating the Resilience of Unstructured Supernode Networks. IEEE Communications Letters, 2013, 17, 1272-1275.	4.1	2
190	Simulative analysis of saturation condition in a Pedestrian Ad-hoc Network. , 2013, , .		2
191	Cooperative spectrum sensing with censoring of cognitive radios with majority logic fusion in Hoyt fading. , 2013, , .		2
192	Low-Complexity Hybrid Time-Frequency Audio Signal Pattern Detection. IEEE Sensors Journal, 2013, 13, 501-509.	4.7	2
193	A Swarm Intelligence Approach to Distance-Based Indoor UWB Localization. Lecture Notes in Computer Science, 2015, , 91-102.	1.3	2
194	A multifloor hybrid inertial/barometric navigation system. , 2016, , .		2
195	Two-Level Quantized Soft-Output Demodulation of QAM Signals With Gray Labeling: A Geometric Approach. IEEE Communications Letters, 2016, 20, 1931-1934.	4.1	2
196	Device-to-device communications in wireless sensor networks. International Journal of Distributed Sensor Networks, 2016, 12, 155014771666423.	2.2	2
197	Impact of the knowledge of nodes' positions on spectrum sensing strategies in cognitive networks. Physical Communication, 2016, 19, 84-92.	2.1	2
198	THORIN: an Efficient Module for Federated Access and Threat Mitigation in Big Stream Cloud Architectures. IEEE Cloud Computing, 2018, 5, 38-48.	3.9	2

#	ARTICLE	IF	CITATIONS
199	Wireless Sensor Networks for Structural Health Monitoring. International Journal of Distributed Sensor Networks, 2015, 11, 425683.	2.2	2
200	Enhancing Security in a Big Stream Cloud Architecture for the Internet of Things Through Blockchain. Advances in Computer and Electrical Engineering Book Series, 2019, , 104-133.	0.3	2
201	UWB-Based Tracking of Autonomous Vehicles with Multiple Receivers. Communications in Computer and Information Science, 2010, , 188-198.	0.5	2
202	Pragmatic phase noise compensation for high-order coded modulations. IET Communications, 2016, 10, 1956-1963.	2.2	2
203	Noncoherent iterative decoding of spectrally efficient coded modulations. Annales Des Telecommunications/Annals of Telecommunications, 2001, 56, 409.	2.5	1
204	Optimal channel utilization ratio in ad hoc wireless networks. , 0, , .		1
205	On information theoretic aspects of single- and multi-carrier communications. , 2008, , .		1
206	Non-cooperative wireless orthogonal multiple access schemes with and without relaying. , 2008, , .		1
207	Zigbee sensor networks with data fusion. , 2008, , .		1
208	Dynamic Spectrum Access: From the Concept to the Implementation. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	1
209	Experimental Investigation of the Performance of Vertical Handover Algorithms between WiFi and UMTS Networks. Communications in Computer and Information Science, 2010, , 137-146.	0.5	1
210	Non-cooperative block-faded orthogonal multiple access with source correlation: Performance limits and practical schemes. , 2010, , .		1
211	Primary exclusive region and optimality of the link-level throughput of cognitive terminals. , 2010, , .		1
212	Design of Optimized Convolutional and Serially Concatenated Convolutional Codes in the Presence of A-priori Information. IEEE Transactions on Wireless Communications, 2011, 10, 530-539.	9.2	1
213	Network-coded multihop multicast: Topology and encoding complexity. , 2012, , .		1
214	BSN-Based Activity Classification: A Low Complexity Windowing-& Classification Approach. Advances in Science and Technology, 0, , .	0.2	1
215	Orthogonal multiple access and information fusion: How many observations are needed?. , 2012, , .		1
216	Audio informed watermarking by means of dirty trellis codes. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
217	Towards distributing block ciphers computations. , 2015, , .		1
218	On the correlation between UPDRS scoring in the leg agility, sit-to-stand, and gait tasks for parkinsonians. , 2015, , .		1
219	A hybrid radio/accelerometric approach toÂarm posture recognition. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 563-578.	1.4	1
220	A low-complexity activity classification algorithm with optimized selection of accelerometric features. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 681-695.	1.4	1
221	A Next-Generation Core Network Architecture for Mobile Networks. Future Internet, 2019, 11, 152.	3.8	1
222	Energy Efficient Wireless Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-1.	1.2	1
223	Link-Level Performance of Indoor Body Area Networks with Centralized Topologies. Open Electrical and Electronic Engineering Journal, 2011, 5, 9-18.	0.6	1
224	Patents on IPv6-Related Technologies. Recent Patents on Computer Science, 2013, 6, 170-180.	0.5	1
225	Cross-Layering between Physical Layer and Routing in Wireless Ad-Hoc Networks. Communications in Computer and Information Science, 2009, , 324-333.	0.5	1
226	A Distributed Wireless Soil Displacement Measurement System for Active Monitoring of the Excavation Front of a Gallery. Open Electrical and Electronic Engineering Journal, 2010, 5, 1-8.	0.6	1
227	Tree-Based Topologies for Multi-Sink Networks. Signals and Communication Technology, 2011, , 123-159.	0.5	1
228	Applying Security to a Big Stream Cloud Architecture for the Internet of Things. , 2019, , 1260-1284.		1
229	A Low-Complexity DQPSK Detection Algorithm for Fading Channels. , 0, , .		0
230	Sensor Networks with Decentralized Binary Detection: Clustering and Lifetime. , 2006, , .		0
231	Optimization of Closed-Loop Power Control for Wireless Multiple Orthogonal Access Schemes with Correlated Sources. , 2008, , .		0
232	Joint channel decoding with feedback power control in sensor networks with correlated sources. , 2009, , .		0
233	Fundamental Limits of Signal Processing in Optical Communications. , 2009, , .		0
234	In-sensor low-complexity audio pattern recognition for pervasive networking. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
235	A joint peer-to-peer and network coding approach for large scale information management. , 2012, , .		0
236	Experimental analysis of VHO-enabled mobile application for data offloading in heterogeneous wireless networks. , 2013, , .		0
237	Advanced Applications of Wireless Sensor Network Using Sensor Cloud Infrastructure. International Journal of Distributed Sensor Networks, 2014, 10, 652862.	2.2	0
238	An information-theoretic analysis of dirty paper coding for informed audio watermarking. , 2014, , .		0
239	A Data-driven IoT-oriented dual-Network Management Protocol. , 2015, , .		0
240	Tradeoff between energy consumption and detection capabilities in collaborative cognitive wireless networks. , 2016, , .		0
241	A P2P virtual core-network architecture for next-generation mobility networks. , 2016, , .		0
242	Performance of LDPC coded modulations in Power Line Communications. , 2016, , .		0
243	A novel approach for energy- and memory-efficient data loss prevention to support Internet of Things networks. International Journal of Distributed Sensor Networks, 2020, 16, 155014772092982.	2.2	0
244	Enhancing Security in a Big Stream Cloud Architecture for the Internet of Things Through Blockchain. , 2021, , 1231-1252.		0
245	Low-Complexity Audio Signal Processing for Localization in Indoor Scenarios. , 2010, , 167-176.		0
246	Distributed Detection of Spatially Constant Phenomena. Signals and Communication Technology, 2011, , 31-99.	0.5	0
247	Distributed Detection of Spatially Non-constant Phenomena. Signals and Communication Technology, 2011, , 101-120.	0.5	0
248	Area Throughput for Multi-Sink Wireless Sensor Networks. Signals and Communication Technology, 2011, , 213-227.	0.5	0
249	Wireless Communications for Vehicular Ad-Hoc Networks. Intelligent Systems Reference Library, 2015, , 51-89.	1.2	0
250	Hierarchical Architecture for Cross Layer ITS Communications. Intelligent Systems Reference Library, 2015, , 91-119.	1.2	0
251	Cooperative Spectrum Sensing with Censoring of Cognitive Radios and MRC-Based Fusion in Fading and Shadowing Channels. Advances in Wireless Technologies and Telecommunication Book Series, 2015, , 38-67.	0.4	0
252	Motion Capture: From Radio Signals to Inertial Signals. Springer Series in Bio-/neuroinformatics, 2015, , 791-812.	0.1	0

#	ARTICLE	IF	CITATIONS
253	Information Dissemination in Urban VANETs. , 0, , 237-263.		0
254	Bionic for Training: Smart Framework Design for Multisensor Mechatronic Platform Validation. Sensors, 2022, 22, 249.	3.8	0