Gianluigi Ferrari

List of Publications by Year
in descending order

254	4,311	172457	182427
papers	citations	29	51
		h-index	g-index
266	266	266	3791
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Bionic for Training: Smart Framework Design for Multisensor Mechatronic Platform Validation. Sensors, 2022, 22, 249.	3.8	0
3	Robust UWBâ€Based Localization with Application to Automated Guided Vehicles. Advanced Intelligent Systems, 2021, 3, 2000083.	6.1	5
4	Enhancing Security in a Big Stream Cloud Architecture for the Internet of Things Through Blockchain. , 2021, , 1231-1252.		0
5	Ultrasonic-Based Environmental Perception for Mobile 5G-Oriented XR Applications. Sensors, 2021, 21, 1329.	3.8	8
6	Hybrid LoRa-IEEE 802.11s Opportunistic Mesh Networking for Flexible UAV Swarming. Drones, 2021, 5, 26.	4.9	21
7	Forecasting Air Temperature on Edge Devices with Embedded AI. Sensors, 2021, 21, 3973.	3.8	15
8	IoT-Enabled Smart Sustainable Cities: Challenges and Approaches. Smart Cities, 2020, 3, 1039-1071.	9.4	99
9	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
10	On Driver Behavior Recognition for Increased Safety: A Roadmap. Safety, 2020, 6, 55.	1.7	20
11	AI at the Edge: a Smart Gateway for Greenhouse Air Temperature Forecasting. , 2020, , .		13
12	LoRaFarM: A LoRaWAN-Based Smart Farming Modular IoT Architecture. Sensors, 2020, 20, 2028.	3.8	102
13	Embedded Artificial Intelligence: The ARTEMIS Vision. Computer, 2020, 53, 65-69.	1.1	4
14	A Modular Multi-interface Gateway for Heterogeneous IoT Networking. , 2020, , .		3
15	A Wave-Based Request-Response Protocol for Latency Minimization in WSNs. IEEE Internet of Things Journal, 2019, 6, 7971-7979.	8.7	7
16	A Next-Generation Core Network Architecture for Mobile Networks. Future Internet, 2019, 11, 152.	3.8	1
17	Energy Efficient Wireless Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-1.	1.2	1
18	An Integrated Multi-Sensor Approach for the Remote Monitoring of Parkinsonâ€™s Disease. Sensors, 2019, 19, 4764.	3.8	22

#	ARTICLE	IF	CITATIONS
19	Toward Industry 4.0 With IoT: Optimizing Business Processes in an Evolving Manufacturing Factory. Frontiers in ICT, 2019, 6, .	3.6	42
20	Wireless Mesh Networking: An IoT-Oriented Perspective Survey on Relevant Technologies. Future Internet, 2019, 11, 99.	3.8	79
21	DiRPL: A RPL-Based Resource and Service Discovery Algorithm for 6LoWPANs. Applied Sciences (Switzerland), 2019, 9, 33.	2.5	7
22	VegIoT Garden: a modular IoT Management Platform for Urban Vegetable Gardens. , 2019, , .		21
23	Internet of Things on Power Line Communications: An Experimental Performance Analysis. Engergy Systems in Electrical Engineering, 2019, , 465-498.	0.7	7
24	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
25	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
26	Applying Security to a Big Stream Cloud Architecture for the Internet of Things. , 2019, , 1260-1284.		1
27	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
28	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
29	Censoring-Based Cooperative Spectrum Sensing with Improved Energy Detectors and Multiple Antennas in Fading Channels. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 537-553.	4.7	30
30	Respiratory Rate Monitoring by Video Processing Using Local Motion Magnification. , 2018, , .		16
31	A Novel Step Detection and Step Length Estimation Algorithm for Hand-held Smartphones. , 2018, , .		4
32	Improving UWB-Based Localization in IoT Scenarios with Statistical Models of Distance Error. Sensors, 2018, 18, 1592.	3.8	20
33	Impact of onâ€‘body IMU placement on inertial navigation. IET Wireless Sensor Systems, 2018, 8, 3-9.	1.7	7
34	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
35	IoTChain: A blockchain security architecture for the Internet of Things. , 2018, , .		151
36	Information fusion for efficient target detection in large-scale surveillance Wireless Sensor Networks. Information Fusion, 2017, 38, 55-64.	19.1	29

#	ARTICLE	IF	CITATIONS
37	Improving Quality of Experience in Future Wireless Access Networks through Fog Computing. IEEE Internet Computing, 2017, 21, 26-33.	3.3	19
38	Iterative Synchronization for Dually-Polarized Independent Transmission Streams. IEEE Transactions on Communications, 2017, 65, 2534-2542.	7.8	3
39	Monitoring infants by automatic video processing: A unified approach to motion analysis. Computers in Biology and Medicine, 2017, 80, 158-165.	7.0	43
40	Markov chain modeling and simulation of breathing patterns. Biomedical Signal Processing and Control, 2017, 33, 245-254.	5.7	6
41	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
42	Connected Vehicles: Applications and Communication Challenges. Mobile Information Systems, 2017, 2017, 1-2.	0.6	5
43	A Survey on Infrastructure-Based Vehicular Networks. Mobile Information Systems, 2017, 2017, 1-28.	0.6	59
44	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
45	Respiratory rate monitoring by maximum likelihood video processing. , 2016, , .		5
46	Tradeoff between energy consumption and detection capabilities in collaborative cognitive wireless networks. , 2016, , .		0
47	Accurate gait analysis in post-stroke patients using a single inertial measurement unit. , 2016, , .		3
48	A multifloor hybrid inertial/barometric navigation system. , 2016, , .		2
49	A P2P virtual core-network architecture for next-generation mobility networks. , 2016, , .		0
50	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
51	SmartCED: An Android application for neonatal seizures detection. , 2016, , .		5
52	On single sensor-based inertial navigation. , 2016, , .		3
53	Integration of Wi-Fi mobile nodes in a Web of Things Testbed. ICT Express, 2016, 2, 96-99.	4.8	14
54	Low-complexity UWB-based collision avoidance system for automated guided vehicles. ICT Express, 2016, 2, 53-56.	4.8	13

#	Article	IF	Citations
55	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
56	Device-to-device communications in wireless sensor networks. International Journal of Distributed Sensor Networks, 2016, 12, 155014771666423.	2.2	2
57	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
58	Performance of LDPC coded modulations in Power Line Communications. , 2016, , .		0
59	Impact of the knowledge of nodes' positions on spectrum sensing strategies in cognitive networks. Physical Communication, 2016, 19, 84-92.	2.1	2
60	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
61	Maximum likelihood localization: When does it fail?. ICT Express, 2016, 2, 10-13.	4.8	3
62	A swarm-based approach to real-time 3D indoor localization: Experimental performance analysis. Applied Soft Computing Journal, 2016, 43, 489-497.	7.2	20
63	Clustering and sensing with decentralized detection in vehicular ad hoc networks. Ad Hoc Networks, 2016, 36, 450-464.	5.5	14
64	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
65	Pragmatic phase noise compensation for high-order coded modulations. IET Communications, 2016, 10, 1956-1963.	2.2	2
66	Phase noise compensation for dually-polarized systems with independent transmission streams. , 2015, , .		3
67	Towards distributing block ciphers computations. , 2015, , .		1
68	On the correlation between UPDRS scoring in the leg agility, sit-to-stand, and gait tasks for parkinsonians. , 2015, , .		1
69	Combining geo-referencing and network coding for distributed large-scale information management. Concurrency Computation Practice and Experience, 2015, 27, 3295-3315.	2.2	3
70	A hybrid radio/accelerometric approach to arm posture recognition. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 563-578.	1.4	1
71	Genetic Centralized Dynamic Clustering in Wireless Sensor Networks. IFIP Advances in Information and Communication Technology, 2015, , 503-511.	0.7	7
72	A Swarm Intelligence Approach to $$3$$ D Distance-Based Indoor UWB Localization. Lecture Notes in Computer Science, 2015, , 91-102.	1.3	2

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73	The IoT hub: a fog node for seamless management of heterogeneous connected smart objects. , 2015, , .		53
74	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
75	IoT-OAS: An OAuth-Based Authorization Service Architecture for Secure Services in IoT Scenarios. IEEE Sensors Journal, 2015, 15, 1224-1234.	4.7	178
76	Irresponsible AODV routing. Vehicular Communications, 2015, 2, 47-57.	4.0	15
77	Assigning UPDRS Scores in the Leg Agility Task of Parkinsonians: Can It Be Done Through BSN-Based Kinematic Variables?. IEEE Internet of Things Journal, 2015, 2, 41-51.	8.7	31
78	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
79	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
80	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
81	Design and Deployment of an IoT Application-Oriented Testbed. Computer, 2015, 48, 32-40.	1.1	47
82	Spatio-temporal video processing for respiratory rate estimation. , 2015, , .		13
83	A Data-driven IoT-oriented dual-Network Management Protocol. , 2015, , .		0
84	A novel weight reset strategy for the LMS algorithm subject to abrupt channel variations. , 2015, , .		6
85	Data dissemination scheme for distributed storage for IoT observation systems at large scale. Information Fusion, 2015, 22, 16-25.	19.1	46
86	Advanced Technologies for Intelligent Transportation Systems. Intelligent Systems Reference Library, 2015, , .	1.2	18
87	Wireless Sensor Networks for Structural Health Monitoring. International Journal of Distributed Sensor Networks, 2015, 11, 425683.	2.2	2
88	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
89	Wireless Communications for Vehicular Ad-Hoc Networks. Intelligent Systems Reference Library, 2015, , 51-89.	1.2	0
90	Hierarchical Architecture for Cross Layer ITS Communications. Intelligent Systems Reference Library, 2015, , 91-119.	1.2	0

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91	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
92	Motion Capture: From Radio Signals to Inertial Signals. Springer Series in Bio-/neuroinformatics, 2015, , 791-812.	0.1	0
93	RAWMAC: A routing aware wave-based MAC protocol for WSNs. , 2014, , .		5
94	Linking UPDRS Scores and Kinematic Variables in the Leg Agility Task of Parkinsonians. , 2014, , .		10
95	An experimental model for UWB distance measurements and its application to localization problems. , 2014, , .		21
96	Swarm intelligent approaches to auto-localization of nodes in static UWB networks. Applied Soft Computing Journal, 2014, 25, 426-434.	7.2	23
97	Advanced Applications of Wireless Sensor Network Using Sensor Cloud Infrastructure. International Journal of Distributed Sensor Networks, 2014, 10, 652862.	2.2	0
98	DINAS: A distributed naming service for all-IP wireless sensor networks. , 2014, , .		4
99	Accurate Indoor Localization with UWB Wireless Sensor Networks. , 2014, , .		19
100	Maximum-likelihood detection of neonatal clonic seizures by video image processing. , 2014, , .		9
101	Lightweight multicast forwarding for service discovery in low-power IoT networks. , 2014, , .		21
102	Cognitive radio CDMA networking with spectrum sensing. International Journal of Communication Systems, 2014, 27, 1582-1600.	2.5	5
103	Real-time automated detection of clonic seizures in newborns. Clinical Neurophysiology, 2014, 125, 1533-1540.	1.5	26
104	Information fusion in wireless sensor networks with source correlation. Information Fusion, 2014, 15, 80-89.	19.1	18
105	Echo cancellation in a Power Line modem in the presence of abrupt channel variations. , 2014, , .		6
106	An information-theoretic analysis of dirty paper coding for informed audio watermarking. , 2014, , .		0
107	Orthogonal Multiple Access With Correlated Sources: Achievable Region and Pragmatic Schemes. IEEE Transactions on Communications, 2014, 62, 2531-2543.	7.8	4
108	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

#	ARTICLE	IF	CITATIONS
109	Sporadic decentralized resource maintenance for P2P distributed storage networks. Journal of Parallel and Distributed Computing, 2014, 74, 2029-2038.	4.1	3
110	A wire-free, non-invasive, low-cost video processing-based approach to neonatal apnoea detection. , 2014, , .		13
111	Low-Complexity Inertial Sensor-based Characterization of the UPDRS Score in the Gait Task of Parkinsonians. , 2014, , .		3
112	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
113	Cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading under majority logic fusion. , 2013, , .		20
114	Audio informed watermarking by means of dirty trellis codes. , 2013, , .		1
115	On spectrum sensing in cognitive radio CDMA networks with beamforming. Physical Communication, 2013, 9, 73-87.	2.1	5
116	Data storage and retrieval with RPL routing. , 2013, , .		4
117	Investigating the Resilience of Unstructured Supernode Networks. IEEE Communications Letters, 2013, 17, 1272-1275.	4.1	2
118	On the characterization of Leg Agility in patients with Parkinson's Disease. , 2013, , .		7
119	Simulative analysis of saturation condition in a Pedestrian Ad-hoc Network. , 2013, , .		2
120	Cooperative spectrum sensing with censoring of cognitive radios with majority logic fusion in Hoyt fading. , 2013, , .		2
121	Low-Complexity Hybrid Time-Frequency Audio Signal Pattern Detection. IEEE Sensors Journal, 2013, 13, 501-509.	4.7	2
122	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
123	A novel batch-based group key management protocol applied to the Internet of Things. Ad Hoc Networks, 2013, 11, 2724-2737.	5.5	76
124	Cross-layer design and analysis of WSN-based mobile target detection systems. Ad Hoc Networks, 2013, 11, 712-732.	5.5	9
125	Simulating mobile and distributed systems with DEUS and ns-3. , 2013, , .		23
126	Performance of MRC fusion-based cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading channels. , 2013, , .		7

#	Article	IF	Citations
127	Particle Swarm Optimization for Auto-localization of Nodes in Wireless Sensor Networks. Lecture Notes in Computer Science, 2013, , 456-465.	1.3	11
128	Batch-based group key management with shared key derivation in the Internet of Things. , 2013, , .		6
129	Design and evaluation of a delay-efficient RPL routing metric. , 2013, , .		47
130	Optimized anchors placement: An analytical approach in UWB-based TDOA localization. , 2013, , .		14
131	Experimental analysis of VHO-enabled mobile application for data offloading in heterogeneous wireless networks. , 2013, , .		0
132	Enforcing Security Mechanisms in the IP-Based Internet of Things: An Algorithmic Overview. Algorithms, 2013, 6, 197-226.	2.1	78
133	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
134	Patents on IPv6-Related Technologies. Recent Patents on Computer Science, 2013, 6, 170-180.	0.5	1
135	Network-coded multihop multicast: Topology and encoding complexity. , 2012, , .		1
136	Video processing-based detection of neonatal seizures by trajectory features clustering. , 2012, , .		6
137	Improved ultra wideband-based tracking of twin-receiver automated guided vehicles. Integrated Computer-Aided Engineering, 2012, 19, 3-22.	4.6	9
138	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
139	Orthogonal multiple access and information fusion: How many observations are needed?. , 2012, , .		1
140	Majority logic fusion of censored decisions in wireless sensor networks with Rayleigh fading. , 2012, , .		6
141	A joint peer-to-peer and network coding approach for large scale information management. , 2012, , .		0
142	Recursive analytical performance evaluation of broadcast protocols with silencing: application to VANETs. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	13
143	Energy-efficient mobile target detection in Wireless Sensor Networks with random node deployment and partial coverage. Pervasive and Mobile Computing, 2012, 8, 429-447.	3.3	47
144	Decoding and Fusion in Distributed Detection Schemes with Unreliable Communications. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 16-26.	4.7	3

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145	Low-Complexity Image Processing for Real-Time Detection of Neonatal Clonic Seizures. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 375-382.	3.2	31
146	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
147	Performance analysis of broadcast protocols in VANETs with Poisson vehicle distribution. , 2011, , .		12
148	Randomized network coding in distributed storage systems with layered overlay. , 2011, , .		9
149	Extraction of video features for real-time detection of neonatal seizures. , 2011, , .		11
150	Cross-network information dissemination in VANETs. , 2011, , .		17
151	Distributed detection with censoring of sensors in Rayleigh faded channel. , 2011, , .		3
152	Short-lived key management for secure communications in VANETs. , 2011, , .		13
153	Optimum Topology in Clustered IEEE 802.15.4 Sensor Networks with Decentralized Detection. , 2011, , .		4
154	Clustered vehicular networks: Decentralized detection “on the move”. , 2011, , .		3
155	Simple and robust BSN-based activity classification. , 2011, , .		4
156	Decentralized Detection in Clustered Sensor Networks. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 959-973.	4.7	39
157	On Non-Cooperative Block-Faded Orthogonal Multiple Access Schemes with Correlated Sources. IEEE Transactions on Communications, 2011, 59, 1916-1926.	7.8	3
158	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
159	Clustered Zigbee networks with data fusion: Characterization and performance analysis. Ad Hoc Networks, 2011, 9, 1083-1103.	5.5	15
160	Fingerprinting-based wireless 3D localization for motion capture applications. , 2011, , .		3
161	Comparative investigation of single-hop and multi-hop broadcast strategies for information dissemination in VANETs. , 2011, , .		3
162	Distributed detection using MRC with censored sensors and rayleigh faded communications. , 2011, , .		2

#	Article	IF	Citations
163	Sensor Networks with IEEE 802.15.4 Systems. Signals and Communication Technology, 2011, , .	0.5	14
164	Link-Level Performance of Indoor Body Area Networks with Centralized Topologies. Open Electrical and Electronic Engineering Journal, 2011, 5, 9-18.	0.6	1
165	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
166	Distributed Detection of Spatially Constant Phenomena. Signals and Communication Technology, 2011, , 31-99.	0.5	0
167	Distributed Detection of Spatially Non-constant Phenomena. Signals and Communication Technology, 2011, , 101-120.	0.5	0
168	Area Throughput for Multi-Sink Wireless Sensor Networks. Signals and Communication Technology, 2011, , 213-227.	0.5	0
169	Tree-Based Topologies for Multi-Sink Networks. Signals and Communication Technology, 2011, , 123-159.	0.5	1
170	Polarization orthogonality for the co-existence of wideband fading cognitive networks. , 2010, , .		2
171	Connectivity of ad hoc wireless networks: an alternative to graph-theoretic approaches. Wireless Networks, 2010, 16, 793-811.	3.0	17
172	Primary Exclusive Region and Throughput of Cognitive Dual-Polarized Networks. , 2010, , .		7
173	Probabilistic Coexistence and Throughput of Cognitive Dual-Polarized Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	4
174	Low-Complexity One-Dimensional Edge Detection in Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	2
175	Low-complexity in-sensor audio detection with experimental validation. , 2010, , .		2
176	On the effects of mobility for efficient broadcast data dissemination in I2V networks. , 2010, , .		6
177	Low-complexity image processing for real-time detection of neonatal clonic seizures. , 2010, , .		7
178	Dynamic Spectrum Access: From the Concept to the Implementation. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	1
179	Decentralized Detection in IEEE 802.15.4 Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	7
180	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

#	Article	IF	Citations
181	Engineering energy-efficient target detection applications in Wireless Sensor Networks. , 2010, , .		7
182	A simple information-theoretic analysis of clustered sensor networks with decentralized detection. IEEE Communications Letters, 2010, 14, 560-562.	4.1	5
183	In-sensor low-complexity audio pattern recognition for pervasive networking. , 2010, , .		0
184	Performance Evaluation of Cognitive Radio CDMA Networks with Spectrum Sensing. , 2010, , .		3
185	Non-cooperative block-faded orthogonal multiple access with source correlation: Performance limits and practical schemes. , 2010, , .		1
186	Accurate performance bounds for target detection in WSNs with deterministic node placement. , 2010, , .		2
187	Density evolution-based analysis and design of LDPC codes with a priori information. , 2010, , .		8
188	Primary exclusive region and optimality of the link-level throughput of cognitive terminals. , 2010, , .		1
189	Cluster-Based Irresponsible Forwarding. , 2010, , 59-68.		5
190	UWB-Based Tracking of Autonomous Vehicles with Multiple Receivers. Communications in Computer and Information Science, 2010, , 188-198.	0.5	2
191	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
192	Low-Complexity Audio Signal Processing for Localization in Indoor Scenarios. , 2010, , 167-176.		0
193	Efficient Broadcasting in IEEE 802.11 Networks through Irresponsible Forwarding. , 2009, , .		21
194	Feedback Power Control Strategies inWireless Sensor Networks with Joint Channel Decoding. Sensors, 2009, 9, 8776-8809.	3.8	4
195	Adjacency Matrix-Based Transmit Power Allocation Strategies in Wireless Sensor Networks. Sensors, 2009, 9, 5390-5422.	3.8	7
196	Detection by multiple trellises. IEEE Transactions on Communications, 2009, 57, 726-737.	7.8	4
197	Fundamental performance limits of communications systems impaired by impulse noise. IEEE Transactions on Communications, 2009, 57, 171-182.	7.8	80
198	Markov Chain-based performance analysis of multihop IEEE 802.15.4 wireless networks. Performance Evaluation, 2009, 66, 722-741.	1.2	42

#	ARTICLE	IF	CITATIONS
199	Optimizing channel coding for orthogonal multiple access schemes with correlated sources. , 2009, , .		10
200	LDPC Coded Modulations. Signals and Communication Technology, 2009, , .	0.5	29
201	Joint channel decoding with feedback power control in sensor networks with correlated sources. , 2009, , .		0
202	Fundamental Limits of Signal Processing in Optical Communications. , 2009, , .		0
203	Cross-Layering between Physical Layer and Routing in Wireless Ad-Hoc Networks. Communications in Computer and Information Science, 2009, , 324-333.	0.5	1
204	Simulation-assisted Analysis and Design of STP-based Networks. , 2009, , .		3
205	State-Complexity Reduction in MLSD Receivers for Optical Communications With Direct Photodetection. Journal of Lightwave Technology, 2008, 26, 3497-3508.	4.6	2
206	Markov chain-based performance evaluation of IEEE 802.15.4 multihop wireless sensor networks. , 2008, , .		5
207	On physical layer-oriented routing with power control in ad hoc wireless networks. IET Communications, 2008, 2, 306.	2.2	22
208	On information theoretic aspects of single- and multi-carrier communications. , 2008, , .		1
209	A Multi-Dimensional Characterization of Clustered Zigbee Networks. , 2008, , .		2
210	Decoding and Fusion in Sensor Networks with Noisy Observations and Communications. , 2008, , .		3
211	Multihop IEEE 802.15.4 Wireless Networks With Finite Node Buffers: Markov Chain-Based Analysis. , 2008, , .		2
212	Non-cooperative wireless orthogonal multiple access schemes with and without relaying. , 2008, , .		1
213	Optimization of Closed-Loop Power Control for Wireless Multiple Orthogonal Access Schemes with Correlated Sources. , 2008, , .		0
214	Zigbee sensor networks with data fusion. , 2008, , .		1
215	Direct-Detection Optical DPSK. , 2008, , .		2
216	Irresponsible forwarding. , 2008, , .		40

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#	Article	IF	Citations
217	Decentralised binary detection with non-constant SNR profile at the sensors. International Journal of Sensor Networks, 2008, 4, 23.	0.4	16
218	A simple performance analysis of RFID networks with binary tree collision arbitration. International Journal of Sensor Networks, 2008, 4, 194.	0.4	19
219	Extending the Lifetime of Sensor Networks through Adaptive Reclustering. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	2.4	8
220	On Linear Predictive Detection for Communications With Phase Noise and Frequency Offset. IEEE Transactions on Vehicular Technology, 2007, 56, 2073-2085.	6.3	17
221	Route Reservation in Ad Hoc Wireless Networks. IEEE Transactions on Mobile Computing, 2007, 6, 56-71.	5.8	6
222	Wireless Sensor Networks: Performance Analysis in Indoor Scenarios. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	2.4	54
223	Post-detection nonlinear distortion for efficient MLSD in optical links. Optics Express, 2007, 15, 11750.	3.4	8
224	Fundamental Limits of Electronic Signal Processing in Direct-Detection Optical Communications. Journal of Lightwave Technology, 2007, 25, 1742-1753.	4.6	23
225	Iterative Detection for Channels With Memory. Proceedings of the IEEE, 2007, 95, 1272-1294.	21.3	24
226	From Information Rate Computation to Communication System Design. , 2007, , .		2
227	Impact of Mobility on the BER Performance of Ad Hoc Wireless Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 271-286.	6.3	21
228	Decentralized binary detection with noisy communication links. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 1554-1563.	4.7	50
229	Optimal Transmit Power in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2006, 5, 1432-1447.	5.8	120
230	Does the Performance of LDPC Codes Depend on the Channel?. IEEE Transactions on Communications, 2006, 54, 2129-2132.	7.8	60
231	Sensor Networks with Decentralized Binary Detection: Clustering and Lifetime. , 2006, , .		0
232	A Communication-Theoretic Approach to Ad Hoc Wireless Networking. , 2006, , .		4
233	Fundamental limits of electronic dispersion compensation in optical communications with direct photodetection. Electronics Letters, 2006, 42, 874.	1.0	4
234	Decentralized Detection In Sensor Networks With Noisy Communication Links. , 2006, , 233-249.		18

#	Article	IF	Citations
235	On Trellis-Based Truncated-Memory Detection. IEEE Transactions on Communications, 2005, 53, 1462-1476.	7.8	4
236	High-SNR mutual information of dense constellations. , 2005, , .		2
237	A novel class of low-complexity SISO algorithms for phase-uncertain communications. , 2005, , .		2
238	Serial concatenation of LDPC codes and differential modulations. IEEE Journal on Selected Areas in Communications, 2005, 23, 1758-1768.	14.0	45
239	A unified framework for finite-memory detection. IEEE Journal on Selected Areas in Communications, 2005, 23, 1697-1706.	14.0	18
240	Tight bounds and accurate approximations for DQPSK transmission bit error rate. Electronics Letters, 2004, 40, 1284.	1.0	20
241	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
242	Linear programming-based optimization of the distance spectrum of linear block codes. IEEE Transactions on Information Theory, 2003, 49, 1794-1800.	2.4	3
243	Linear predictive receivers for phase-uncertain channels. , 2003, , .		5
244	New bounds for the Marcum Q-function. IEEE Transactions on Information Theory, 2002, 48, 3003-3008.	2.4	68
245	Reduced-state BCJR-type algorithms. IEEE Journal on Selected Areas in Communications, 2001, 19, 848-859.	14.0	100
246	Noncoherent iterative decoding of spectrally efficient coded modulations. Annales Des Telecommunications/Annals of Telecommunications, 2001, 56, 409.	2.5	1
247	Extrinsic information in iterative decoding: a unified view. IEEE Transactions on Communications, 2001, 49, 2088-2094.	7.8	63
248	Noncoherent iterative (turbo) decoding. IEEE Transactions on Communications, 2000, 48, 1488-1498.	7.8	94
249	A Low-Complexity DQPSK Detection Algorithm for Fading Channels. , 0, , .		0
250	Optimal channel utilization ratio in ad hoc wireless networks. , 0, , .		1
251	Route reservation in ad hoc networks: is it a good idea?. , 0, , .		9
252	BSN-Based Activity Classification: A Low Complexity Windowing-&-Classification Approach. Advances in Science and Technology, 0, , .	0.2	1

#	Article	IF	Citations
253	D4V: a peer-to-peer architecture for data dissemination in smartphone-based vehicular applications. PeerJ Computer Science, 0, 1, e15.	4.5	5
254	Information Dissemination in Urban VANETs. , 0, , 237-263.		0