

Yannick Le Moullec

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

1,072
citations

758635

12
h-index

500791

28
g-index

104
all docs

104
docs citations

104
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on the Roles of Communication Technologies in IoT-Based Personalized Healthcare Applications. IEEE Access, 2018, 6, 36611-36631.	2.6	191
2	Radio Resource Management Scheme in NB-IoT Systems. IEEE Access, 2018, 6, 15051-15064.	2.6	115
3	Narrowband Internet of Things (NB-IoT): From Physical (PHY) and Media Access Control (MAC) Layers Perspectives. Sensors, 2019, 19, 2613.	2.1	101
4	Latest Research Trends in Gait Analysis Using Wearable Sensors and Machine Learning: A Systematic Review. IEEE Access, 2020, 8, 167830-167864.	2.6	56
5	Jamming of UAV remote control systems using software defined radio. , 2018, , .		48
6	Automatic detection of multisize pulmonary nodules in CT images: Large-scale validation of the false-positive reduction step. Medical Physics, 2018, 45, 1135-1149.	1.6	38
7	On Research Challenges in Hybrid Medium-Access Control Protocols for IEEE 802.15.6 WBANs. IEEE Sensors Journal, 2019, 19, 8543-8555.	2.4	34
8	Communication Challenges in on-Body and Body-to-Body Wearable Wireless Networks—A Connectivity Perspective. Technologies, 2017, 5, 43.	3.0	25
9	Throughput-Aware Cooperative Reinforcement Learning for Adaptive Resource Allocation in Device-to-Device Communication. Future Internet, 2017, 9, 72.	2.4	24
10	Surveying pervasive public safety communication technologies in the context of terrorist attacks. Physical Communication, 2020, 41, 101109.	1.2	24
11	Dynamic Slot Allocation Using Non Overlapping Backoff Algorithm in IEEE 802.15.6 WBAN. IEEE Sensors Journal, 2020, 20, 10862-10875.	2.4	22
12	A QoS Optimization Approach in Cognitive Body Area Networks for Healthcare Applications. Sensors, 2017, 17, 780.	2.1	20
13	Radio Resource Management in NB-IoT Systems: Empowered by Interference Prediction and Flexible Duplexing. IEEE Network, 2020, 34, 144-151.	4.9	17
14	Reward Function Evaluation in a Reinforcement Learning Approach for Energy Management. , 2018, , .		16
15	Evaluation of low power wide area network technologies for smart urban drainage systems. , 2018, , .		16
16	NB-IoT Network Field Trial: Indoor, Outdoor and Underground Coverage Campaign. , 2019, , .		15
17	An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. IEEE Internet of Things Journal, 2021, 8, 14756-14772.	5.5	13
18	DORM: Narrowband IoT Development Platform and Indoor Deployment Coverage Analysis. Procedia Computer Science, 2019, 151, 1084-1091.	1.2	12

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19	Cooperative reinforcement learning for adaptive power allocation in device-to-device communication. , 2018, , .		11
20	Determinants of Insurance Purchase Decision Making in Lithuania. Engineering Economics, 2013, 24, .	1.5	11
21	Algorithmic-level Specification and Characterization of Embedded Multimedia Applications with Design Trotter. Journal of Signal Processing Systems, 2006, 42, 185-208.	1.0	10
22	Optimization of channel allocation in wireless body area networks by means of reinforcement learning. , 2016, , .		10
23	A Low Complexity, High Speed, Regular and Flexible Reed Solomon Decoder for Wireless Communication. , 0, , .		9
24	Novel Active-Passive Two-Way Ranging Protocols for UWB Positioning Systems. IEEE Sensors Journal, 2022, 22, 5223-5237.	2.4	9
25	Multi-granularity metrics for the era of strongly personalized SOCs. , 0, , .		8
26	A Context-Aware User Interface for Wireless Personal-Area Network Assistive Environments. Wireless Personal Communications, 2013, 69, 427-447.	1.8	8
27	ADS-B in space: Decoder implementation and first results from the GATOSS mission. , 2014, , .		8
28	Adaptive LINE-P: An Adaptive Linear Energy Prediction Model for Wireless Sensor Network Nodes. Sensors, 2018, 18, 1105.	2.1	8
29	Methods for increased sensitivity and scope in automatic segmentation and detection of lung nodules in CT images. , 2015, , .		7
30	Autonomous Wireless Sensor Networks: Implementation of Transient Computing and Energy Prediction for Improved Node Performance and Link Quality. Computer Journal, 2019, 62, 820-837.	1.5	7
31	ProSe Direct Discovery: Experimental Characterization and Context-Aware Heuristic Approach to Extend Public Safety Networks Lifetime. IEEE Access, 2021, 9, 130055-130071.	2.6	7
32	An NB-IoT-Based Edge-of-Things Framework for Energy-Efficient Image Transfer. Sensors, 2021, 21, 5929.	2.1	7
33	Fast and Fair Computation Offloading Management in a Swarm of Drones Using a Rating-Based Federated Learning Approach. IEEE Access, 2021, 9, 113832-113849.	2.6	7
34	Design-Trotter: a multimedia embedded systems design space exploration tool. , 0, , .		6
35	Design of a multimedia processor based on metrics computation. Advances in Engineering Software, 2005, 36, 448-458.	1.8	6
36	A tool for lung nodules analysis based on segmentation and morphological operation. , 2015, , .		6

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37	The current state of voice over internet protocol in wireless mesh networks. , 2016, , .		6
38	Evaluation of VoIP QoS Performance in Wireless Mesh Networks. Information (Switzerland), 2017, 8, 88.	1.7	6
39	Dual-Source Linear Energy Prediction (LINE-P) Model in the Context of WSNs. Sensors, 2017, 17, 1666.	2.1	6
40	Interference-Aware Radio Resource Allocation for 5G Ultra-Reliable Low-Latency Communication. , 2018, , .		6
41	Optical Detection Methods for High-Throughput Fluorescent Droplet Microflow Cytometry. Micromachines, 2021, 12, 345.	1.4	6
42	A practical FPGA-based LUT-predistortion technology for switch-mode power amplifier linearization. , 2009, , .		5
43	Q-Learning Based Joint Energy-Spectral Efficiency Optimization in Multi-Hop Device-to-Device Communication. Sensors, 2020, 20, 6692.	2.1	5
44	TOWARDS AN ABM-BASED FRAMEWORK FOR INVESTIGATING CONSUMER BEHAVIOUR IN THE INSURANCE INDUSTRY. Ekonomika Vilniaus Universitetas, 2010, 89, 95-110.	0.5	5
45	EPICURE: A partitioning and co-design framework for reconfigurable computing. Microprocessors and Microsystems, 2006, 30, 367-387.	1.8	4
46	A modular 6LoWPAN-based wireless sensor body area network for health-monitoring applications. , 2014, , .		4
47	Frequency and power allocation schemes for heterogeneous networks including femto cells. , 2015, , .		4
48	Operating Wireless Sensor Nodes without Energy Storage: Experimental Results with Transient Computing. Electronics (Switzerland), 2016, 5, 89.	1.8	4
49	Approaches for improving VoIP QoS in WMNs. , 2017, , .		4
50	Cooperative Interference Avoidance Scheduler for Radio Resource Management in NB-IoT Systems. , 2020, , .		4
51	A Deep Learning Approach for LoS/NLoS Identification via PRACH in UAV-assisted Public Safety Networks. , 2020, , .		4
52	Unsupervised Feature Mapping via Stacked Sparse Autoencoder for Automated Detection of Large Pulmonary nodules in CT Images. Elektronika Ir Elektrotechnika, 2017, 23, .	0.4	4
53	Conceptualising and Simulating Insurance Consumer Behaviour: an Agent-Based-Model Approach. International Journal of Modeling and Optimization, 0, , 250-257.	0.4	4
54	Cooperative Scheduler to Enhance Massive Connectivity in 5G and Beyond by Minimizing Interference in OMA and NOMA. IEEE Systems Journal, 2022, 16, 5044-5055.	2.9	4

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55	A Primer On Public Safety Communication in the Context of Terror Attacks: The NATO SPS âœCOUNTER-TERRORâ€•Project. NATO Science for Peace and Security Series B: Physics and Biophysics, 2020, , 19-34.	0.2	4
56	Scheduling Temporal Partitions in a Multiprocessing Paradigm for Reconfigurable Architectures. , 2009, , .		3
57	Efficient FPGA implementation of a STBC-OFDM combiner for an IEEE 802.16 software radio receiver. Telecommunication Systems, 2013, 56, 245.	1.6	3
58	A bio-impedance signal simulator (BISS) for research and training purposes. , 2015, , .		3
59	Energy-Efficient Distributed Leader Selection Algorithm for Energy-Constrained Wireless Sensor Networks. IEEE Access, 2019, 7, 4410-4421.	2.6	3
60	Power Optimization in a Non-Coordinated Secondary Infrastructure in a Heterogeneous Cognitive Radio Network. Elektronika Ir Elektrotechnika, 2015, 21, .	0.4	3
61	Estimation du parallÃ©lisme au niveau systÃ©me pour l'exploration de l'espace de conception de systÃ©mes enfous. Techniques Et Sciences Informatiques, 2003, 22, 315-349.	0.0	3
62	A generic hardware-accelerated OFDM system simulator. , 2005, , .		2
63	Sparse Reconstruction Method for Separating Cardiac and Respiratory Components from Electrical Bioimpedance Measurements. Elektronika Ir Elektrotechnika, 2018, 24, .	0.4	2
64	Model-based System Architecture for Event-triggered Wireless Control of Bio-analytical Devices. , 2021, , .		2
65	Direct Discovery-based Cooperative Device-to-Device Communication for Emergency Scenarios in 6G. , 2022, , .		2
66	Power consumption estimation of the multi-threaded xinc processor. , 0, , .		1
67	Efficient Algorithm and System Architecture for the Suppression of MPEG Artifacts. , 2006, , .		1
68	HSDPA design space exploration and implementation guidance with Design-Trotter. , 2007, , .		1
69	ATtACk - A methodology for realizing partially reconfigurable FPGA systems. , 2007, , .		1
70	Hardware aspects of fixed relay station design for OFDM(A) based wireless relay networks. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	1
71	A Priori Implementation Effort Estimation for Hardware Design Based on Independent Path Analysis. Eurasip Journal on Embedded Systems, 2008, 2008, 1-12.	1.2	1
72	Implementation aspects of a Flexible frequency Spectrum Usage algorithm for cognitive OFDM Systems. , 2011, , .		1

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73	An automated test framework for experimenting with stochastic behavior in reconfigurable logic. , 2012, , .		1
74	Zero-forcing pre-coding for MIMO WiMAX transceivers: Performance analysis and implementation issues. , 2013, , .		1
75	Analytical evaluation of indoor energy harvesting technologies for WSNs with FYPsim framework. , 2016, , .		1
76	FYPsim: An estimation framework for energy harvesting and energy prediction for WSNs. , 2016, , .		1
77	LMS-based leader selection for distributed estimation. , 2017, , .		1
78	Inter-cell Interference Reduction Scheme for Uplink Transmission in NB-IoT Systems. , 2021, , .		1
79	A Configurable Radio Jamming Prototype for Physical Layer Attacks Against Malicious Unmanned Aerial Vehicles. , 2020, , .		1
80	Experimental Characterization of ProSe Direct Discovery for Emergency Scenarios. , 2021, , .		1
81	Joint Optimization Via Deep Reinforcement Learning in Wireless Networked Controlled Systems. IEEE Access, 2022, 10, 67152-67167.	2.6	1
82	A scheduling framework for system-level estimation. , 0, , .		0
83	Design Space Exploration for Rapid Development of DSP Applications. , 0, , .		0
84	Non-Data Aided Carrier Offset Compensation for SDR Implementation. , 2008, , .		0
85	A method for a priori implementation effort estimation for hardware design. , 2008, , .		0
86	DS-CDMA Descrambling and Despreading with the Cell Broadband Engine. , 2009, , .		0
87	Hardware-Accelerated NIOS-II Implementation of a Turbo Decoder. , 2009, , .		0
88	Fast feasibility estimation of reconfigurable architectures. , 2009, , .		0
89	Flexible and Reconfigurable Implementation of Link Adaptation Algorithms. Wireless Personal Communications, 2010, 54, 83-93.	1.8	0
90	SystemC-AMS SDF model synthesis for exploration of heterogeneous architectures. , 2010, , .		0

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91	Statistical re-acquisition method for GPS receivers on satellites in Low Earth Orbit. , 2011, , .		0
92	Empirical verification of fault models for FPGAs operating in the subcritical voltage region. , 2013, , .		0
93	Architectural design space exploration of an FPGA-based compressed sampling engine: Application to wireless heart-rate monitoring. , 2015, , .		0
94	Power-efficient frequency allocation algorithms for self-organized networks. , 2015, , .		0
95	Distributed Adaptive Largest Eigenvalue Detection with SNR Weighted Observations. , 2018, , .		0
96	Dynamic Radio Frame Configuration by Exploiting Uplink Control Channel for URLLC. , 2019, , .		0
97	Detection of pulmonary micronodules in computed tomography images and false positive reduction using 3D convolutional neural networks. International Journal of Imaging Systems and Technology, 2020, 30, 327-339.	2.7	0
98	SDR Implementation of a Low Complexity and Interference-Resilient Space-Time Block Decoder for MIMO-OFDM Systems. Lecture Notes in Computer Science, 2011, , 119-129.	1.0	0