Luis Gonzaga Alonso ZÃ¡rate

List of Publications by Year
in descending order

92	2,009	471509	302126
92	**2,009**	**17**	**39**
papers	citations	h-index	g-index

92	92	92	1947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Demand-Aware Cooperative Content Caching in 5G/6G Networks With MEC-Enabled Edges. IEEE Networking Letters, 2022, 4, 118-122.	1.9	3
2	Delay and Energy Consumption Analysis of Frame Slotted ALOHA variants for Massive Data Collection in Internet-of-Things Scenarios. Applied Sciences (Switzerland), 2020, 10, 327.	2.5	4
3	Energy Sharing and Trading in Multi-Operator Heterogeneous Network Deployments. IEEE Transactions on Vehicular Technology, 2019, 68, 4975-4988.	6.3	13
4	Energy Analysis of Contention Tree-Based Access Protocols in Dense Machine-to-Machine Area Networks. Journal of Sensors, 2015, 2015, 1-12.	1.1	4
5	Reliable MAC design for ambient assisted living: moving the coordination to the cloud. , 2015, 53, 78-86.		31
6	LPDQ: A self-scheduled TDMA MAC protocol for one-hop dynamic low-power wireless networks. Pervasive and Mobile Computing, 2015, 20, 84-99.	3.3	26
7	Modeling and Analysis of Reservation Frame Slotted-ALOHA in Wireless Machine-to-Machine Area Networks for Data Collection. Sensors, 2015, 15, 3911-3931.	3.8	5
8	Energy-efficient infrastructure sharing in multi-operator mobile networks. , 2015, 53, 242-249.		68
9	RLNC-Aided Cooperative Compressed Sensing for Energy Efficient Vital Signal Telemonitoring. IEEE Transactions on Wireless Communications, 2015, 14, 3685-3699.	9.2	33
10	Performance Analysis of a Cognitive Radio Contention-Aware Channel Selection Algorithm. IEEE Transactions on Vehicular Technology, 2015, 64, 1958-1972.	6.3	37
11	A Survey on M2M Systems for mHealth: A Wireless Communications Perspective. Sensors, 2014, 14, 18009-18052.	3.8	98
12	A Cloud-Assisted Random Linear Network Coding Medium Access Control Protocol for Healthcare Applications. Sensors, 2014, 14, 4806-4830.	3.8	35
13	Standardized Low-Power Wireless Communication Technologies for Distributed Sensing Applications. Sensors, 2014, 14, 2663-2682.	3.8	27
14	Experimental Energy Consumption of Frame Slotted ALOHA and Distributed Queuing for Data Collection Scenarios. Sensors, 2014, 14, 13416-13436.	3.8	3
15	Energy Consumption Optimisation for Duty-Cycled Schemes in Shadowed Environments. International Journal of Distributed Sensor Networks, 2014, 10, 709135.	2.2	2
16	Is the Random Access Channel of LTE and LTE-A Suitable for M2M Communications? A Survey of Alternatives. IEEE Communications Surveys and Tutorials, 2014, 16, 4-16.	39.4	493
17	CooPNC: A cooperative multicast protocol exploiting physical layer network coding. Ad Hoc Networks, 2014, 14, 35-50.	5.5	13
18	Demonstrating Low-Power Distributed Queuing for active RFID communications at 433 MHz. , 2014, , .		2

#	Article	IF	Citations
19	Energy-efficient user association in cognitive heterogeneous networks. , 2014, 52, 22-29.		60
20	Device-to-device communications and small cells: enabling spectrum reuse for dense networks. IEEE Wireless Communications, 2014, 21, 98-105.	9.0	54
21	Model based compressed sensing reconstruction algorithms for ECG telemonitoring in WBANs. , 2014, 35, 105-116.		20
22	Wireless Energy Harvesting in Two-Way Network Coded Cooperative Communications: A Stochastic Approach for Large Scale Networks. IEEE Communications Letters, 2014, 18, 1011-1014.	4.1	69
23	Multi-Radio Cooperative ARQ in wireless cellular networks: a MAC layer perspective. Telecommunication Systems, 2013, 52, 375.	2.5	9
24	Energy efficiency of an enhanced DCF access method using bidirectional communications for infrastructure-based IEEE 802.11 WLANs. , 2013, , .		6
25	Energy performance of distributed queuing access in Machine-to-Machine networks with idle-to-saturation transitions. , 2013, , .		10
26	A base station switching on-off algorithm using traditional MIMO and spatial modulation. , 2013, , .		6
27	An energy efficient distributed coordination function using bidirectional transmissions and sleep periods for IEEE 802.11 WLANs. , 2013, , .		10
28	Fairness evaluation of a secondary network coexistence scheme. , 2013, , .		8
29	Energy efficiency analysis of secondary networks in cognitive radio systems. , 2013, , .		8
30	Impact of Correlated Log-Normal Shadowing on Two-Way Network Coded Cooperative Wireless Networks. IEEE Communications Letters, 2013, 17, 1738-1741.	4.1	10
31	Game theoretic approach for switching off base stations in multi-operator environments. , 2013, , .		34
32	Energy efficient techniques for 802.11n multiuser MAC WLANs. , 2013, , .		1
33	Experimental Study of Bluetooth, ZigBee and IEEE 802.15.4 Technologies on Board High-Speed Trains. , 2012, , .		9
34	Extending the lifetime of M2M wireless networks through cooperation. , 2012, , .		6
35	Multi-radio cooperative retransmission scheme for reliable machine-to-machine multicast services. , 2012, , .		8
36	Dynamic energy efficient distance-aware Base Station switch on/off scheme for LTE-advanced. , 2012, , .		37

#	Article	IF	Citations
37	A survey on prototyping platforms for the development and experimental evaluation of medium access control protocols. IEEE Wireless Communications, 2012, 19, 74-81.	9.0	10
38	Throughput Analysis of a Cooperative ARQ Scheme in the Presence of Hidden and Exposed Terminals. Mobile Networks and Applications, 2012, 17, 258-266.	3.3	10
39	Distributed point coordination function for IEEE 802.11 wireless ad hoc networks. Ad Hoc Networks, 2012, 10, 536-551.	5.5	15
40	A Threshold-Selective Multiuser Downlink MAC Scheme for 802.11n Wireless Networks. IEEE Transactions on Wireless Communications, 2011, 10, 857-867.	9.2	11
41	Performance Analysis of a Medium-Transparent MAC Protocol for 60GHz Radio-over-Fiber Networks. , 2011, , .		2
42	Energy-Efficiency Analysis of a Distributed Queuing Medium Access Control Protocol for Biomedical Wireless Sensor Networks in Saturation Conditions. Sensors, 2011, 11, 1277-1296.	3.8	15
43	Saturation Throughput Performance Analysis of a Medium Transparent MAC Protocol for 60 GHz Radio-Over-Fiber Networks. Journal of Lightwave Technology, 2011, 29, 3777-3785.	4.6	21
44	Secure Precise Clock Synchronization for Interconnected Body Area Networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	3
45	GREENET - An Early Stage Training Network in Enabling Technologies for Green Radio. , 2011, , .		11
46	Energy-Efficiency Evaluation of a Medium Access Control Protocol for Cooperative ARQ. , 2011, , .		11
47	An Experimental Study of Multi-radio Platform Coexistence in the 5 GHz Band for Railway Applications. Lecture Notes in Computer Science, 2011, , 11-22.	1.3	2
48	Coexistence of a Novel Medium Access Control Protocol for Wireless Ad Hoc Networks and the IEEE 802.11. , 2010, , .		0
49	Performance Analysis of a Cluster-Based MAC Protocol for Wireless Ad Hoc Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	10
50	Design and Analysis of an Energy-Saving Distributed MAC Mechanism for Wireless Body Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	20
51	Analysis of a Distributed Queuing Medium Access Control Protocol for Cooperative ARQ. , 2010, , .		6
52	Performance analysis of the distributed queuing collision avoidance (DQCA) protocol with link adaptation. IEEE Transactions on Wireless Communications, 2009, 8, 644-647.	9.2	5
53	Cross-Layer Scheduling with QoS Support over a Distributed Queuing MAC for Wireless LANs. Mobile Networks and Applications, 2009, 14, 709-724.	3.3	5
54	Multiuser MAC Protocols for 802.11n Wireless Networks. , 2009, , .		14

#	Article	IF	Citations
55	Highly reliable energy-saving mac for wireless body sensor networks in healthcare systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 553-565.	14.0	159
56	Fuzzy-Logic Scheduling for Highly Reliable and Energy-Efficient Medical Body Sensor Networks. , 2009, , .		10
57	Towards an energy saving MAC for wireless body sensor networks. , 2009, , .		1
58	Distributed Point Coordination Function for Wireless Ad hoc Networks. , 2009, , .		12
59	Performance analysis of a persistent relay carrier sensing multiple access protocol. IEEE Transactions on Wireless Communications, 2009, 8, 5827-5831.	9.2	30
60	Analytical evaluation of a Medium Access Control priority mechanism for wireless Ad hoc Networks. , 2009, , .		2
61	Medium access control priority mechanism for a DQMAN-based wireless network. IEEE Communications Letters, 2009, 13, 495-497.	4.1	3
62	Testing Cooperative Communication Schemes in a Virtual Distributed Testbed of Wireless Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 210-219.	0.3	0
63	Self-organizing Mobile Ad Hoc Networks: Spontaneous Clustering at the MAC Layer. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 242-253.	0.3	0
64	Persistent RCSMA: A MAC Protocol for a Distributed Cooperative ARQ Scheme in Wireless Networks. Eurasip Journal on Advances in Signal Processing, 2008, 2008, .	1.7	65
65	Cross-layer enhancement for wlan systems with heterogeneous traffic based on DQCA. , 2008, 46, 60-66.		13
66	A near-optimum cross-layered distributed queuing protocol for wireless LAN. IEEE Wireless Communications, 2008, 15, 48-55.	9.0	44
67	Saturation Throughput Analysis of a Cluster-based Medium Access Control Protocol for Single-hop Ad Hoc Wireless Networks. Simulation, 2008, 84, 619-633.	1.8	5
68	Throughput Analysis of a Medium Access Control Protocol for a Distributed Cooperative ARQ Scheme in Wireless Networks. , 2008, , .		3
69	Saturation Throughput Analysis of a Passive Cluster-Based Medium Access Control Protocol for Ad Hoc Wireless Networks. , 2008, , .		4
70	A novel near-optimum medium access control protocol for a distributed Cooperative ARQ scheme in wireless networks. , 2008, , .		6
71	Performance enhancement of DQMAN-based wireless ad hoc networks in multi-hop scenarios. , 2008, , .		0
72	Cross-Layer Enhancement for WLAN Systems with Heterogeneous Traffic Based on DQCA. , 2007, , .		3

#	Article	IF	Citations
73	Enhanced Operation of DQMAN Based Wireless Ad Hoc Networks. , 2007, , .		1
74	Enhanced Analysis of WCDMA Networks with Repeaters Deployment. IEEE Transactions on Wireless Communications, 2007, 6, 3429-3439.	9.2	4
75	Opportunistic Scheduling using an Enhanced Channel State Information Update Scheme for WLAN Systems with DQCA. IEEE Vehicular Technology Conference, 2007, , .	0.4	3
76	Cooperation on Demand Protocols for Wireless Networks. , 2007, , .		16
77	Efficient Power Management Based on a Distributed Queuing MAC for Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	7
78	Capacity and Coverage Tradeoff in WCDMA Environments with Repeaters Deployment. Wireless Personal Communications, 2007, 40, 329-342.	2.7	2
79	Optimization of wireless communication systems using cross-layer information. Signal Processing, 2006, 86, 1755-1772.	3.7	6
80	WLAN throughput improvement via distributed queuing MAC. IEEE Communications Letters, 2005, 9, 310-312.	4.1	31
81	Automatic rate adaptation and energy-saving mechanisms based on cross-layer information for packet-switched data networks. , 2004, 42, S15-S20.		26
82	MAC-PHY enhancement for 802.11b WLAN systems via cross-layering. , 2003, , .		16
83	Design and analysis of cellular mobile communications system based on DQRAPâˆ•CDMA MAC protocol. Electronics Letters, 2002, 38, 138.	1.0	8
84	Average block error probability in the reverse link of a packet DS/CDMA system under Rayleigh fading channel conditions. IEEE Communications Letters, 2000, 4, 116-118.	4.1	14
85	A near-optimum MAC protocol based on the distributed queueing random access protocol (DQRAP) for a CDMA mobile communication system. IEEE Journal on Selected Areas in Communications, 2000, 18, 1701-1718.	14.0	64
86	The IL-2/IL-2-Receptor Complex in the Maturation of Rat T-Cell Progenitors. Autoimmunity, 1998, 6, 141-147.	0.6	1
87	Proposal of DQRAP/CDMA MAC protocol optimization. , 0, , .		4
88	A novel MAC protocol for dynamic ad hoc wireless networks with dynamic self-configurable master-slave architecture. , 0, , .		6
89	Dynamic self-configurable master-slave architecture for ad hoc wireless networks with a distributed MAC scheme. , 0, , .		0
90	Opportunistic scheduling for WLAN systems using cross-layer techniques and a distributed MAC. , 0, , .		2

#	Article	IF	Citations
91	A Cross-Layer Scheduling Algorithm for DQCA-based WLAN Systems with Heterogeneous Voice-Data Traffic. , 0, , .		1
92	Cross-Layer Enhancement for WLAN Systems based on a Distributed Queuing MAC protocol. , 0, , .		4