Jaime Lloret

List of Publications by Citations

520 papers	8,124 citations
43 h-index	69 g-index
593 ext. papers	10,434 ext. citations
3.3 avg, IF	6.94 L-index

#	Paper	IF	Citations
520	Context-aware vehicular cyber-physical systems with cloud support: architecture, challenges, and solutions **2014**, 52, 106-113		262
519	A Survey on Electric Power Demand Forecasting: Future Trends in Smart Grids, Microgrids and Smart Buildings. *IEEE Communications Surveys and Tutorials*, **2014**, 16, 1460-1495	37.1	251
518	Network Traffic Classifier With Convolutional and Recurrent Neural Networks for Internet of Things. *IEEE Access*, **2017**, 5, 18042-18050	3.5	250
517	A wireless sensor network deployment for rural and forest fire detection and verification. *Sensors*, **2009**, 9, 8722-47	3.8	178
516	Secure Surveillance Framework for IoT Systems Using Probabilistic Image Encryption. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 3679-3689	11.9	145
515	An Integrated IoT Architecture for Smart Metering **2016**, 54, 50-57		136
514	IoT-Based Smart Irrigation Systems: An Overview on the Recent Trends on Sensors and IoT Systems for Irrigation in Precision Agriculture. *Sensors*, **2020**, 20,	3.8	129
513	Artificial neural networks for short-term load forecasting in microgrids environment. *Energy*, **2014**, 75, 252-264	7.9	121
512	**2013**, 51, 106-113		116
511	CODIE: Controlled Data and Interest Evaluation in Vehicular Named Data Networks. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 3954-3963	6.8	112
510	Underwater Acoustic Modems. *IEEE Sensors Journal*, **2016**, 16, 4063-4071	4	101
509	Conditional Variational Autoencoder for Prediction and Feature Recovery Applied to Intrusion Detection in IoT. *Sensors*, **2017**, 17,	3.8	98
508	A Time-Driven Data Placement Strategy for a Scientific Workflow Combining Edge Computing and Cloud Computing. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 4254-4265	11.9	91
507	A wireless sensor network for vineyard monitoring that uses image processing. *Sensors*, **2011**, 11, 6165-96	3.8	87
506	Underwater wireless sensor communications in the 2.4 GHz ISM frequency band. *Sensors*, **2012**, 12, 4237-64	3.8	86
505	Grey wolf optimization based clustering algorithm for vehicular ad-hoc networks. *Computers and Electrical Engineering*, **2018**, 70, 853-870	4.3	85
504	Short-Term Load Forecasting for Microgrids Based on Artificial Neural Networks. *Energies*, **2013**, 6, 1385-1408	3.1	80

485	CASMOC: a novel complex alliance strategy with multi-objective optimization of coverage in wireless sensor networks. *Wireless Networks*, **2017**, 23, 1201-1222	2.5	49
484	A cluster-based architecture to structure the topology of parallel wireless sensor networks. *Sensors*, **2009**, 9, 10513-44	3.8	49
483	Towards video streaming in IoT Environments: Vehicular communication perspective. *Computer Communications*, **2018**, 118, 93-119	5.1	48
482	Design and Deployment of Low-Cost Sensors for Monitoring the Water Quality and Fish Behavior in Aquaculture Tanks during the Feeding Process. *Sensors*, **2018**, 18,	3.8	48
481	Saving energy and improving communications using cooperative group-based Wireless Sensor Networks. *Telecommunication Systems*, **2013**, 52, 2489-2502	2.3	47
480	A hybrid stochastic approach for self-location of wireless sensors in indoor environments. *Sensors*, **2009**, 9, 3695-712	3.8	47
479	Security in networks of unmanned aerial vehicles for surveillance with an agent-based approach inspired by the principles of blockchain. *Ad Hoc Networks*, **2019**, 86, 72-82	4.8	46
478	Intelligent beaconless geographical forwarding for urban vehicular environments. *Wireless Networks*, **2013**, 19, 345-362	2.5	44
477	Systems and WBANs for Controlling Obesity. *Journal of Healthcare Engineering*, **2018**, 2018, 1564748	3.7	43
476	Software Defined Network-based control system for an efficient traffic management for emergency situations in smart cities. *Future Generation Computer Systems*, **2018**, 88, 243-253	7.5	43
475	A Smart Decision System for Digital Farming. *Agronomy*, **2019**, 9, 216	3.6	42
474	Internet of Things for Measuring Human Activities in Ambient Assisted Living and e-Health. *Network Protocols and Algorithms*, **2016**, 8, 15	0.3	41
473	Design and development of low cost smart turbidity sensor for water quality monitoring in fish farms. *Aquacultural Engineering*, **2018**, 81, 10-18	3	40
472	Intelligent IoT Traffic Classification Using Novel Search Strategy for Fast-Based-Correlation Feature Selection in Industrial Environments. *IEEE Internet of Things Journal*, **2018**, 5, 1616-1624	10.7	39
471	Including artificial intelligence in a routing protocol using Software Defined Networks **2017**,		39
470	An Intelligent System for Video Surveillance in IoT Environments. *IEEE Access*, **2018**, 6, 31580-31598	3.5	38
469	Advanced Industrial Wireless Sensor Networks and Intelligent IoT **2018**, 56, 14-15		37
468	Smart system for children's chronic illness monitoring. *Information Fusion*, **2018**, 40, 76-86	16.7	37

467	Optimized Cluster-Based Dynamic Energy-Aware Routing Protocol for Wireless Sensor Networks in Agriculture Precision. *Journal of Sensors*, **2020**, 2020, 1-19	2	35
466	Pain-Free Blood Glucose Monitoring Using Wearable Sensors: Recent Advancements and Future Prospects. *IEEE Reviews in Biomedical Engineering*, **2018**, 11, 21-35	6.4	35
465	Wireless Sensors Self-Location in an Indoor WLAN Environment **2007**,		35
464	Architecture and protocol for intercloud communication. *Information Sciences*, **2014**, 258, 434-451	7.7	34
463	Deep Learning for Safe Autonomous Driving: Current Challenges and Future Directions. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 4316-4336	6.1	34
462	ELDC: An Artificial Neural Network Based Energy-Efficient and Robust Routing Scheme for Pollution Monitoring in WSNs. *IEEE Transactions on Emerging Topics in Computing*, **2020**, 8, 106-114	4.1	34
461	Smart Collaborative Mobile System for Taking Care of Disabled and Elderly People. *Mobile Networks and Applications*, **2014**, 19, 287-302	2.9	33
460	A QoE management system to improve the IPTV network. *International Journal of Communication Systems*, **2011**, 24, 118-138	1.7	33
459	An Optimized Probabilistic Delay Tolerant Network (DTN) Routing Protocol Based on Scheduling Mechanism for Internet of Things (IoT). *Sensors*, **2019**, 19,	3.8	32
458	Geometry-Based Localization for GPS Outage in Vehicular Cyber Physical Systems. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 3800-3812	6.8	32
457	Routing Protocols in Vehicular Ad hoc Networks: Survey and Research Challenges. *Network Protocols and Algorithms*, **2013**, 39	0.3	32
456	IRPL: An energy efficient routing protocol for wireless sensor networks. *Journal of Systems Architecture*, **2017**, 75, 35-49	5.5	31
455	Smart System for Bicarbonate Control in Irrigation for Hydroponic Precision Farming. *Sensors*, **2018**, 18,	3.8	31
454	. *IEEE Transactions on Parallel and Distributed Systems*, **2013**, 24, 629-641	3.7	31
453	Fog computing enabled cost-effective distributed summarization of surveillance videos for smart cities. *Journal of Parallel and Distributed Computing*, **2019**, 126, 161-170	4.4	31
452	Elastic and cost-effective data carrier architecture for smart contract in blockchain. *Future Generation Computer Systems*, **2019**, 100, 590-599	7.5	30
451	Spectral and Energy Efficient Low-Overhead Uplink and Downlink Channel Estimation for 5G Massive MIMO Systems. *Entropy*, **2018**, 20,	2.8	30
450	Secure Routing Protocol Using Cross-Layer Design and Energy Harvesting in Wireless Sensor Networks. *International Journal of Distributed Sensor Networks*, **2013**, 9, 374796	1.7	30

449	An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *IEEE Internet of Things Journal*, **2021**, 8, 3170-3179	10.7	30
448	Improved Short-Term Load Forecasting Based on Two-Stage Predictions with Artificial Neural Networks in a Microgrid Environment. *Energies*, **2013**, 6, 4489-4507	3.1	29
447	A secure and low-energy zone-based wireless sensor networks routing protocol for pollution monitoring. *Wireless Communications and Mobile Computing*, **2016**, 16, 2869-2883	1.9	29
446	A mobile anchor assisted localization algorithm based on regular hexagon in wireless sensor networks. *Scientific World Journal, The*, **2014**, 2014, 219371	2.2	28
445	Underwater Wireless Communications in Freshwater at 2.4 GHz. *IEEE Communications Letters*, **2013**, 17, 1794-1797	3.8	28
444	GBP-WAHSN: A Group-Based Protocol for Large Wireless Ad Hoc and Sensor Networks. *Journal of Computer Science and Technology*, **2008**, 23, 461-480	1.7	28
443	Deep Learning Model for Multimedia Quality of Experience Prediction Based on Network Flow Packets. *IEEE Communications Magazine*, **2018**, 56, 110-117	9.1	28
442	Intelligent and Energy-Efficient Data Prioritization in Green Smart Cities: Current Challenges and Future Directions. *IEEE Communications Magazine*, **2019**, 57, 60-65	9.1	27
441	Near real-time security system applied to SDN environments in IoT networks using convolutional neural network. *Computers and Electrical Engineering*, **2020**, 86, 106738	4.3	27
440	Human-Centric AI for Trustworthy IoT Systems With Explainable Multilayer Perceptrons. *IEEE Access*, **2019**, 7, 125562-125574	3.5	27
439	Cross-Layer Dynamic Admission Control for Cloud-Based Multimedia Sensor Networks. *IEEE Systems Journal*, **2014**, 8, 235-246	4.3	27
438	Using Concept Lattice for Personalized Recommendation System Design. *IEEE Systems Journal*, **2017**, 11, 305-314	4.3	26
437	Shallow neural network with kernel approximation for prediction problems in highly demanding data networks. *Expert Systems With Applications*, **2019**, 124, 196-208	7.8	26
436	Physical Sensors for Precision Aquaculture: A Review. *IEEE Sensors Journal*, **2018**, 18, 3915-3923	4	26
435	An RTP/RTCP based approach for multimedia group and inter-stream synchronization. *Multimedia Tools and Applications*, **2008**, 40, 285-319	2.5	26
434	Improving networks using group-based topologies. *Computer Communications*, **2008**, 31, 3438-3450	5.1	26
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431	Group-based protocol and mobility model for VANETs to offer internet access. *Journal of Network and Computer Applications*, **2013**, 36, 1027-1038	7.9	25
430	Experimental Analysis of the Input Variables Relevance to Forecast Next Days Aggregated Electric Demand Using Neural Networks. *Energies*, **2013**, 6, 2927-2948	3.1	25
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426	Real Deployments of Wireless Sensor Networks **2009**,		24
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422	An m-health application for cerebral stroke detection and monitoring using cloud services. *International Journal of Information Management*, **2019**, 45, 319-327	16.4	23
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420	Long Short-Term Memory and Fuzzy Logic for Anomaly Detection and Mitigation in Software-Defined Network Environment. *IEEE Access*, **2020**, 8, 83765-83781	3.5	23
419	A Survey on Proxy Mobile IPv6 Handover. *IEEE Systems Journal*, **2016**, 10, 208-217	4.3	22
418	Cross-Layer Energy Optimization for IoT Environments: Technical Advances and Opportunities. *Energies*, **2017**, 10, 2073	3.1	22
417	. *IEEE Access*, **2018**, 6, 366-379	3.5	22
416	A Decentralized Deadline-Driven Electric Vehicle Charging Recommendation. *IEEE Systems Journal*, **2019**, 13, 3410-3421	4.3	22
415	An Intelligent Vertical Handover Scheme for Audio and Video Streaming in Heterogeneous Vehicular Networks. *Mobile Networks and Applications*, **2013**, 18, 879-895	2.9	22
414	An underwater wireless group-based sensor network for marine fish farms sustainability monitoring. *Telecommunication Systems*, **2015**, 60, 67-84	2.3	22

413	Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *IEEE Systems Journal*, **2020**, 14, 4735-4745	4.3	21
412	LAPEL: Hop Limit Based Adaptive PIT Entry Lifetime for Vehicular Named Data Networks. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 5546-5557	6.8	21
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408	Robust Image Hashing Based Efficient Authentication for Smart Industrial Environment. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 6541-6550	11.9	20
407	Replication-Aware Data Dissemination for Vehicular Ad Hoc Networks using Location Determination. *Mobile Networks and Applications*, **2015**, 20, 251-267	2.9	20
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404	Denial of service mitigation approach for IPv6-enabled smart object networks. *Concurrency Computation Practice and Experience*, **2013**, 25, 129-142	1.4	20
403	A network access control framework for 6LoWPAN networks. *Sensors*, **2013**, 13, 1210-30	3.8	20
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401	A Novel Shortcut Addition Algorithm With Particle Swarm for Multisink Internet of Things. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 3566-3577	11.9	20
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399	Improved Geographical Routing in Vehicular Ad Hoc Networks. *Wireless Personal Communications*, **2015**, 80, 785-804	1.9	19
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397	A secure NFC application for credit transfer among mobile phones **2012**,		19
396	IEEE 802.11a/b/g/n Indoor Coverage and Performance Comparison **2010**,		19

395	A hybrid intelligent model for network selection in the industrial Internet of Things. *Applied Soft Computing Journal*, **2019**, 74, 529-546	7.5	19
394	Towards Efficient Sink Mobility in Underwater Wireless Sensor Networks. *Energies*, **2018**, 11, 1471	3.1	19
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387	Birthmark based identification of software piracy using Haar wavelet. *Mathematics and Computers in Simulation*, **2019**, 166, 144-154	3.3	17
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383	Ubiquitous monitoring of electrical household appliances. *Sensors*, **2012**, 12, 15159-91	3.8	17
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381	Machine Learning Prediction Approach to Enhance Congestion Control in 5G IoT Environment. *Electronics (Switzerland)*, **2019**, 8, 607	2.6	16
380	Systems and Algorithms for Wireless Sensor Networks Based on Animal and Natural Behavior. *International Journal of Distributed Sensor Networks*, **2015**, 11, 625972	1.7	16
379	A Smart Architecture for Diabetic Patient Monitoring Using Machine Learning Algorithms. *Healthcare (Switzerland)*, **2020**, 8,	3.4	16
378	Ad hoc Network for Emergency Rescue System based on Unmanned Aerial Vehicles. *Network Protocols and Algorithms*, **2016**, 7, 72	0.3	16

377	Pairing-based authentication protocol for V2G networks in smart grid. *Ad Hoc Networks*, **2019**, 90, 101745	4.8	16
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375	A Smart Glucose Monitoring System for Diabetic Patient. *Electronics (Switzerland)*, **2020**, 9, 678	2.6	15
374	Internet of Unmanned Aerial Vehicles: QoS Provisioning in Aerial Ad-Hoc Networks. *Sensors*, **2020**, 20,	3.8	15
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372	Lightweight algorithm for protecting SDN controller against DDoS attacks **2017**,		15
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370	Study of Multimedia Delivery over Software Defined Networks. *Network Protocols and Algorithms*, **2016**, 7, 37	0.3	15
369	Enabling Mobile and Wireless Technologies for Smart Cities **2017**, 55, 74-75		14
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354	Enabling green computing in cloud environments: Network virtualization approach toward 5G support. *Transactions on Emerging Telecommunications Technologies*, **2018**, 29, e3434	1.9	13
353	Adversarial Deep Learning approach detection and defense against DDoS attacks in SDN environments. *Future Generation Computer Systems*, **2021**, 125, 156-167	7.5	13
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349	Game Theoretic Solution for Power Management in IoT-Based Wireless Sensor Networks. *Sensors*, **2019**, 19,	3.8	11
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347	Defenses Against Perception-Layer Attacks on IoT Smart Furniture for Impaired People. *IEEE Access*, **2020**, 8, 119795-119805	3.5	11
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