Alicia TriviÃ±o

List of Publications by Year
in descending order

67 papers	741 citations	623734 14 h-index	610901 24 g-index
70 all docs	70 docs citations	70 times ranked	568 citing authors

#	Article	IF	Citations
1	Wireless Power Transfer Technologies Applied to Electric Vehicles: A Review. Energies, 2021, 14, 1547.	3.1	86
2	Joint routing and scheduling for electric vehicles in smart grids with V2G. Energy, 2019, 175, 113-122.	8.8	63
3	Battery energy storage systems in transmission network expansion planning. Electric Power Systems Research, 2017, 145, 63-72.	3.6	57
4	Wireless Power Transfer for Electric Vehicles: Foundations and Design Approach. Power Systems, 2020, , .	0.5	50
5	Type-2 fuzzy decision support system to optimise MANET integration into infrastructure-based wireless systems. Expert Systems With Applications, 2013, 40, 2552-2567.	7.6	29
6	Cluster Head Enhanced Election Type-2 Fuzzy Algorithm for Wireless Sensor Networks. IEEE Communications Letters, 2017, 21, 2069-2072.	4.1	27
7	EUDFC - Enhanced Unequal Distributed Type-2 Fuzzy Clustering Algorithm. IEEE Sensors Journal, 2019, 19, 4705-4716.	4.7	25
8	Model Predictive Control to Maximize the Efficiency in EV Wireless Chargers. IEEE Transactions on Industrial Electronics, 2022, 69, 1244-1253.	7.9	25
9	A Comparison between Particle Swarm and Grey Wolf Optimization Algorithms for Improving the Battery Autonomy in a Photovoltaic System. Applied Sciences (Switzerland), 2021, 11, 7732.	2.5	22
10	Design and Validation of a Control Algorithm for a SAE J2954-Compliant Wireless Charger to Guarantee the Operational Electrical Constraints. Energies, 2018, 11, 604.	3.1	20
11	Analytical characterisation of magnetic field generated by ICPT wireless charger. Electronics Letters, 2017, 53, 871-873.	1.0	18
12	An analytical model to estimate path duration in MANETs. , 2006, , .		17
13	Adaptive gateway discovery for mobile ad hoc networks based on the characterisation of the link lifetime. IET Communications, 2011, 5, 2241-2249.	2.2	15
14	Active Tuning of Wireless Power Transfer System for compensating coil misalignment and variable load conditions. AEU - International Journal of Electronics and Communications, 2020, 119, 153166.	2.9	15
15	A Hybrid Charger of Conductive and Inductive Modes for Electric Vehicles. IEEE Transactions on Industrial Electronics, 2021, 68, 12021-12033.	7.9	15
16	People-Centric Internet of Thingsâ€"Challenges, Approach, and Enabling Technologies. Studies in Computational Intelligence, 2016, , 463-474.	0.9	15
17	A New Centralized Clustering Algorithm for Wireless Sensor Networks. Sensors, 2019, 19, 4391.	3.8	14
18	Improved Scheme for Adaptive Gateway Discovery in Hybrid MANET. , 2010, , .		13

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19	Independent primary-side controller applied to wireless chargers for electric vehicles. , 2014, , .		13
20	Ad hoc routing based on the stability of routes. , 2006, , .		12
21	An adaptive gateway discovery for mobile ad hoc networks. , 2007, , .		12
22	A Distributed Clustering Algorithm Guided by the Base Station to Extend the Lifetime of Wireless Sensor Networks. Sensors, 2020, 20, 2312.	3.8	12
23	Application of path duration study in multihop ad hoc networks. Telecommunication Systems, 2008, 38, 3-9.	2.5	10
24	Cooperative layer-2 based routing approach for hybrid wireless mesh networks. China Communications, 2013, 10, 88-99.	3.2	10
25	Review on Control Techniques for EV Bidirectional Wireless Chargers. Electronics (Switzerland), 2021, 10, 1905.	3.1	10
26	Design and Implementation of a Cost-Effective Wireless Charger for an Electric Bicycle. IEEE Access, 2021, 9, 85277-85288.	4.2	10
27	Characterizing Document Types to Evaluate Web Cache Replacement Policies. , 2007, , .		9
28	A cross layer interception and redirection cooperative caching scheme for MANETs. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	9
29	A Review on the Fundamentals and Practical Implementation Details of Strongly Coupled Magnetic Resonant Technology for Wireless Power Transfer. Energies, 2018, 11, 2844.	3.1	8
30	An Adaptive Genetic Fuzzy Control Gateway Discovery to Interconnect Hybrid MANETs. , 2009, , .		7
31	Jump to the Next Level: A Four-Year Gamification Experiment in Information Technology Engineering. IEEE Access, 2019, 7, 118125-118134.	4.2	7
32	Integration of Mobile Ad Hoc Networks into the Internet without Dedicated Gateways. , 2006, , .		6
33	Study on the need for adaptive gateway discovery in MANETs. , 2009, , .		6
34	Adaptive video protection in large scale peer‐to‐peer video streaming over mobile wireless mesh networks. International Journal of Communication Systems, 2016, 29, 2580-2603.	2.5	6
35	Assessment of the Power Losses in a SAE J2954-Compliant Wireless Charger. IEEE Access, 2022, 10, 54474-54483.	4.2	6
36	Distributed Model Predictive Control for voltage coordination of large-scale wind power plants. International Journal of Electrical Power and Energy Systems, 2022, 143, 108436.	5.5	6

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37	Sensitivity analysis of component's tolerance in Inductively Coupled Power Transfer system. , 2013, , .		5
38	Impact of renewable energy sources in the power quality of the Italian electric grid. , 2017, , .		5
39	Connectivity Gateway Discovery in MANETs. Lecture Notes in Computer Science, 2008, , 128-141.	1.3	5
40	Two New Metrics to Evaluate the Performance of a Web Cache with Admission Control. , 0, , .		4
41	Impact of Coil Misalignment in Data Transmission over the Inductive Link of an EV Wireless Charger. Energies, 2018, 11, 538.	3.1	4
42	Active gateway switching in hybrid ad hoc networks. Electronics Letters, 2006, 42, 1252.	1.0	3
43	Search of the Shortest Path in a Communication Network with Fuzzy Cost Functions. Symmetry, 2021, 13, 1534.	2.2	3
44	Theoretical analysis of the efficiency of a V2G wireless charger for Electric Vehicles. Transactions on Environment and Electrical Engineering, 2018, 3, 9.	0.5	3
45	A Windows Based Web Cache Simulator Tool. , 2008, , .		3
46	Feasibility of independent photovoltaic system as main energy provider in charging stations for EVs in Spain and Italy. , 2015, , .		2
47	Wireless Power Transfer System Design for E-bikes Application. , 2019, , .		2
48	Fundamentals of Wireless Power Transfer. Power Systems, 2020, , 1-18.	0.5	2
49	Interconnecting MANET and the internet a mobility approach. , 2008, , .		1
50	A stability approach to improve MANET-internet connection. , 2008, , .		1
51	Type-2 fuzzy logic control to optimise Internet-connected MANETs. Electronics Letters, 2011, 47, 727.	1.0	1
52	A practical guide for novice supervisors of master's thesis. , 2014, , .		1
53	Implementing a competitive learning framework in Chemical Engineering degree in Spain and its applicability on an inter-university scenario. , 2014, , .		1
54	Proposal and Evaluation of a Caching Scheme for Ad Hoc Networks. Lecture Notes in Computer Science, 2009, , 366-372.	1.3	1

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55	An Optimized MANET Gateway Discovery Based on Fuzzy Logic. Communications in Computer and Information Science, 2010, , 273-282.	0.5	1
56	Simulation of Multihop Wireless Networks in OMNeT++. , 2012, , 140-157.		1
57	Compensation Networks. Power Systems, 2020, , 69-100.	0.5	1
58	Application of Path Duration Study in MultiHop Ad Hoc Networks. , 2007, , 63-74.		1
59	Statistical Normalization for a Guided Clustering Type-2 Fuzzy System for WSN. IEEE Sensors Journal, 2022, 22, 6187-6195.	4.7	1
60	An Improved Scheme for the Integration of Mobile Ad Hoc Networks into the Internet without Dedicated Gateways. , 0, , .		0
61	Anticipated DAD for Global Connectivity in Hybrid MANETs. , 2006, , .		0
62	Proposal and evaluation of an application level caching scheme for ad hoc networks. , 2009, , .		0
63	Identification of Stable Links in MANETs. , 2010, , .		0
64	Control algorithm for wireless EV charger considering operational constraints of electrical components. , 2017, , .		0
65	Link-Layer Based Anycast Routing for a Dynamic and Distributed Portal Selection in Wireless Mesh Networks. Lecture Notes in Computer Science, 2011, , 374-385.	1.3	0
66	Cross-Layer Interception Caching for MANETs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 196-211.	0.3	0
67	Design Procedure of an EV Magnetic Resonance Charger. Power Systems, 2020, , 129-152.	0.5	0