Francisco J Martinez

List of Publications by Year
in descending order

64 papers	2,442 citations	279798 23 h-index	361022 35 g-index
65 all docs	65 docs citations	65 times ranked	1949 citing authors

#	Article	IF	Citations
1	A Review on Electric Vehicles: Technologies and Challenges. Smart Cities, 2021, 4, 372-404.	9.4	511
2	A survey and comparative study of simulators for vehicular <i>ad hoc</i> networks (VANETs). Wireless Communications and Mobile Computing, 2011, 11, 813-828.	1.2	232
3	Emergency Services in Future Intelligent Transportation Systems Based on Vehicular Communication Networks. IEEE Intelligent Transportation Systems Magazine, 2010, 2, 6-20.	3.8	206
4	CityMob: A Mobility Model Pattern Generator for VANETs. , 2008, , .		108
5	Road Side Unit Deployment: A Density-Based Approach. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 30-39.	3.8	108
6	Automatic Accident Detection: Assistance Through Communication Technologies and Vehicles. IEEE Vehicular Technology Magazine, 2012, 7, 90-100.	3.4	80
7	Evaluating the impact of a novel message dissemination scheme for vehicular networks using real maps. Transportation Research Part C: Emerging Technologies, 2012, 25, 61-80.	7.6	62
8	A System for Automatic Notification and Severity Estimation of Automotive Accidents. IEEE Transactions on Mobile Computing, 2014, 13, 948-963.	5.8	55
9	Advances in smart roads for future smart cities. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190439.	2.1	54
10	Realistic Radio Propagation Models (RPMs) for VANET Simulations. , 2009, , .		52
11	Sensing Traffic Density Combining V2V and V2I Wireless Communications. Sensors, 2015, 15, 31794-31810.	3.8	48
12	Improving Roadside Unit Deployment in Vehicular Networks by Exploiting Genetic Algorithms. Applied Sciences (Switzerland), 2018, 8, 86.	2.5	48
13	Computer Simulations of VANETs Using Realistic City Topologies. Wireless Personal Communications, 2013, 69, 639-663.	2.7	46
14	VEACON: A Vehicular Accident Ontology designed to improve safety on the roads. Journal of Network and Computer Applications, 2012, 35, 1891-1900.	9.1	45
15	Securing Warning Message Dissemination in VANETs Using Cooperative Neighbor Position Verification. IEEE Transactions on Vehicular Technology, 2015, 64, 2538-2550.	6.3	44
16	A Survey and Comparative Study of Broadcast Warning Message Dissemination Schemes for VANETs. Mobile Information Systems, 2016, 2016, 1-18.	0.6	42
17	RTAD: A real-time adaptive dissemination system for VANETs. Computer Communications, 2015, 60, 53-70.	5.1	41
18	Prototyping an automatic notification scheme for traffic accidents in vehicular networks. , 2011, , .		38

#	Article	IF	Citations
19	A novel approach for traffic accidents sanitary resource allocation based on multi-objective genetic algorithms. Expert Systems With Applications, 2013, 40, 323-336.	7.6	35
20	An Infrastructureless Approach to Estimate Vehicular Density in Urban Environments. Sensors, 2013, 13, 2399-2418.	3.8	35
21	A V2I-Based Real-Time Traffic Density Estimation System in Urban Scenarios. Wireless Personal Communications, 2015, 83, 259-280.	2.7	33
22	Reducing emergency services arrival time by using vehicular communications and Evolution Strategies. Expert Systems With Applications, 2014, 41, 1206-1217.	7.6	32
23	Assessing the Impact of a Realistic Radio Propagation Model on VANET Scenarios Using Real Maps. , 2010, , .		31
24	Evaluating the Impact of a Novel Warning Message Dissemination Scheme for VANETs Using Real City Maps. Lecture Notes in Computer Science, 2010, , 265-276.	1.3	30
25	A Street Broadcast Reduction Scheme (SBR) to Mitigate the Broadcast Storm Problem in VANETs. Wireless Personal Communications, 2011, 56, 559-572.	2.7	29
26	V2X-d: A vehicular density estimation system that combines V2V and V2I communications. , 2013, , .		29
27	Enhancing the Charging Process of Electric Vehicles at Residential Homes. IEEE Access, 2018, 6, 22875-22888.	4.2	28
28	An Adaptive System Based on Roadmap Profiling to Enhance Warning Message Dissemination in VANETs. IEEE/ACM Transactions on Networking, 2013, 21, 883-895.	3.8	27
29	A Realistic Simulation Framework for Vehicular Networks. , 2012, , .		27
30	On the use of artificial intelligence techniques in intelligent transportation systems. , 2018, , .		24
31	Non-emergency patient transport services planning through genetic algorithms. Expert Systems With Applications, 2016, 61, 262-271.	7.6	22
32	CAOVA: A Car Accident Ontology for VANETs. , 2012, , .		21
33	Smart tourist information points by combining agents, semantics and AI techniques. Computer Science and Information Systems, 2017, 14, 1-23.	1.0	21
34	Determining the Representative Factors Affecting Warning Message Dissemination in VANETs. Wireless Personal Communications, 2012, 67, 295-314.	2.7	19
35	Using topology and neighbor information to overcome adverse vehicle density conditions. Transportation Research Part C: Emerging Technologies, 2014, 42, 1-13.	7.6	19
36	On the Study of Vehicle Density in Intelligent Transportation Systems. Mobile Information Systems, 2016, 2016, 1-13.	0.6	17

#	Article	IF	Citations
37	A performance evaluation of warning message dissemination in 802.11p based VANETs. , 2009, , .		15
38	Evaluating the Feasibility of Using Smartphones for ITS Safety Applications. , 2013, , .		14
39	Analysis of the Most Representative Factors Affecting Warning Message Dissemination in VANETs under Real Roadmaps. , 2011, , .		13
40	Identifying the Key Factors Affecting Warning Message Dissemination in VANET Real Urban Scenarios. Sensors, 2013, 13, 5220-5250.	3.8	13
41	On the selection of optimal broadcast schemes in VANETs. , 2013, , .		10
42	Using Data Mining and Vehicular Networks to Estimate the Severity of Traffic Accidents. Advances in Intelligent Systems and Computing, 2012, , 37-46.	0.6	10
43	Assessing the feasibility of a VANET driver warning system. , 2009, , .		8
44	Extended mobility management and routing protocols for internet-to-VANET multicasting. , 2015, , .		8
45	I-VDE: A Novel Approach to Estimate Vehicular Density by Using Vehicular Networks. Lecture Notes in Computer Science, 2013, , 63-74.	1.3	7
46	On the use of a Cooperative Neighbor Position Verification scheme to secure warning message dissemination in VANETs. , 2013, , .		5
47	Analyzing the Impact of Roadmap and Vehicle Features on Electric Vehicles Energy Consumption. IEEE Access, 2021, 9, 61475-61488.	4.2	5
48	PAWDS: A Roadmap Profile-Driven Adaptive System for Alert Dissemination in VANETs. , 2011, , .		4
49	Using roadmap profiling to enhance the warning message dissemination in vehicular environments. , 2011, , .		4
50	Implementing and testing a driving safety application for smartphones based on the eMDR protocol. , 2012, , .		4
51	Mitigating Electromagnetic Noise When Using Low-Cost Devices in Industry 4.0. IEEE Access, 2021, 9, 63267-63282.	4.2	4
52	Topology-based broadcast schemes for urban scenarios targeting adverse density conditions. , 2014, , .		3
53	On the prediction of electric vehicles energy demand by using vehicular networks. , 2017, , .		3
54	Enhancing the NS-3 Simulator by Introducing Electric Vehicles Features. , 2019, , .		3

#	Article	IF	Citations
55	Real-time density estimation in urban environments by using vehicular communications. , 2012, , .		2
56	Vehicle Density and Roadmap Topology Issues when Characterizing Vehicular Communications. , 2015, , .		2
57	Crowdsensing and Vehicle-Based Sensing. Mobile Information Systems, 2016, 2016, 1-2.	0.6	2
58	Assessing vehicular density estimation using vehicle-to-infrastructure communications. , 2013, , .		1
59	When Vehicular Networks meet Artificial Intelligence. , 2017, , .		1
60	V-tracer: a Vehicular Trace Generator for Future Predictive Maintenance. , 2019, , .		1
61	HyBook: A lifelong learning management system in Higher Education. , 2011, , .		0
62	Using Evolution Strategies to Reduce Emergency Services Arrival Time in Case of Accident. , 2013, , .		0
63	Dynamic Small Cell Management for Connected Cars Communications. , 2017, , .		0
64	Application of Semantic Tagging to Generate Superimposed Information on a Digital Encyclopedia. Communications in Computer and Information Science, 2010, , 84-94.	0.5	0