

Daniel G Costa

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

724

citations

16

h-index

24

g-index

95

ext. papers

952

ext. citations

3.3

avg, IF

5.09

L-index

#	Paper	IF	Citations
68	A TinyML Soft-Sensor Approach for Low-Cost Detection and Monitoring of Vehicular Emissions. <i>Sensors</i> , 2022 , 22, 3838	3.8	1
67	A Survey of Emergencies Management Systems in Smart Cities. <i>IEEE Access</i> , 2022 , 1-1	3.5	2
66	On the development of flexible mobile multi-sensor units based on open-source hardware platforms and a reference framework. <i>HardwareX</i> , 2021 , 10, e00243	2.7	
65	A Survey of Technologies and Recent Developments for Sustainable Smart Cycling. <i>Sustainability</i> , 2021 , 13, 3422	3.6	5
64	An Unsupervised TinyML Approach Applied for Pavement Anomalies Detection Under the Internet of Intelligent Vehicles 2021 ,		6
63	MSensorMob: A Multi-Sensors Hardware Framework to Support the Development of Adaptable Monitoring Units in Mobile Applications 2021 ,		1
62	iBikeSafe: A Multi-Parameter System for Monitoring, Evaluation and Visualization of Cycling Paths in Smart Cities Targeted at Cycling Adverse Conditions. <i>Smart Cities</i> , 2021 , 4, 1058-1086	3.3	3
61	A reliability and performance GSPN-Based model for anti-collision RFID algorithms under noisy channels in industrial internet of things. <i>Computers in Industry</i> , 2021 , 125, 103381	11.6	2
60	A traffic data clustering framework based on fog computing for VANETs. <i>Vehicular Communications</i> , 2021 , 31, 100370	5.7	5
59	On the Use of Cameras for the Detection of Critical Events in Sensors-Based Emergency Alerting Systems. <i>Journal of Sensor and Actuator Networks</i> , 2020 , 9, 46	3.8	2
58	A prioritization approach for optimization of multiple concurrent sensing applications in smart cities. <i>Future Generation Computer Systems</i> , 2020 , 108, 228-243	7.5	11
57	Modelling Coverage Failures Caused by Mobile Obstacles for the Selection of Faultless Visual Nodes in Wireless Sensor Networks. <i>IEEE Access</i> , 2020 , 8, 41537-41550	3.5	5
56	BikeWay: A Multi-Sensory Fuzzy-Based Quality Metric for Bike Paths and Tracks in Urban Areas. <i>IEEE Access</i> , 2020 , 8, 227313-227326	3.5	3
55	A Multi-Tier Sensors-based Environmental Monitoring Approach to Assess the Quality of Bike Paths in Urban Areas 2020 ,		3
54	Automatic Assignment of Emergency Vehicles in Response to Sensors-based Generated Alarms in Smart City Scenarios 2020 ,		1
53	Visual Sensors Hardware Platforms: A Review. <i>IEEE Sensors Journal</i> , 2020 , 20, 4025-4033	4	18
52	FoV-Based Quality Assessment and Optimization for Area Coverage in Wireless Visual Sensor Networks. <i>IEEE Access</i> , 2020 , 8, 109568-109580	3.5	2

51	A Comprehensive Dependability Model for QoM-Aware Industrial WSN When Performing Visual Area Coverage in Occluded Scenarios. <i>Sensors</i> , 2020 , 20,	3.8	2
50	COVID-19 pandemic: a review of smart cities initiatives to face new outbreaks. <i>IET Smart Cities</i> , 2020 , 2, 64-73	3.8	41
49	A Crowdsensing Platform for Monitoring of Vehicular Emissions: A Smart City Perspective. <i>Future Internet</i> , 2019 , 11, 13	3.3	16
48	On redundant coverage maximization in wireless visual sensor networks: Evolutionary algorithms for multi-objective optimization. <i>Applied Soft Computing Journal</i> , 2019 , 82, 105578	7.5	11
47	A Distributed Multi-Tier Emergency Alerting System Exploiting Sensors-Based Event Detection to Support Smart City Applications. <i>Sensors</i> , 2019 , 20,	3.8	12
46	CitySpeed: A Crowdsensing-Based Integrated Platform for General-Purpose Monitoring of Vehicular Speeds in Smart Cities. <i>Smart Cities</i> , 2019 , 2, 46-65	3.3	9
45	A fuzzy-based approach for energy-efficient Wi-Fi communications in dense wireless multimedia sensor networks. <i>Computer Networks</i> , 2018 , 134, 127-139	5.4	11
44	TwitterSensing: An Event-Based Approach for Wireless Sensor Networks Optimization Exploiting Social Media in Smart City Applications. <i>Sensors</i> , 2018 , 18,	3.8	22
43	VisualCastalia: An Extension to the Castalia/OMNeT++ for Simulations of Image Transmissions in Wireless Sensor Networks. <i>IEEE Latin America Transactions</i> , 2018 , 16, 1557-1564	0.7	
42	Multimedia Transmission in Wireless Sensor Networks 2018 , 33-51		2
41	Open-Source Electronics Platforms as Enabling Technologies for Smart Cities: Recent Developments and Perspectives. <i>Electronics (Switzerland)</i> , 2018 , 7, 404	2.6	27
40	Automated Methodology for Dependability Evaluation of Wireless Visual Sensor Networks. <i>Sensors</i> , 2018 , 18,	3.8	11
39	Redundant Visual Coverage of Prioritized Targets in IoT Applications 2018 ,		1
38	On the Development of Visual Sensors with Raspberry Pi 2018 ,		1
37	On the Computing of Area Coverage by Visual Sensor Networks: Assessing Performance of Approximate and Precise Algorithms 2018 ,		4
36	Multiple Mobile Sinks in Event-based Wireless Sensor Networks Exploiting Traffic Conditions in Smart City Applications 2018 ,		1
35	Wireless visual sensor networks for smart city applications:A relevance-based approach for multiple sinks mobility. <i>Future Generation Computer Systems</i> , 2017 , 76, 51-62	7.5	36
34	CO2 Catcher: A Platform for Monitoring of Vehicular Pollution in Smart Cities 2017 ,		3

33	Enhancing the availability of wireless visual sensor networks: Selecting redundant nodes in networks with occlusion. <i>Applied Mathematical Modelling</i> , 2017 , 42, 223-243	4.5	16
32	Availability issues for relevant area coverage in wireless visual sensor networks 2017 ,		4
31	A Fuzzy-Based Approach for Sensing, Coding and Transmission Configuration of Visual Sensors in Smart City Applications. <i>Sensors</i> , 2017 , 17,	3.8	26
30	Cryptography in Wireless Multimedia Sensor Networks: A Survey and Research Directions. <i>Cryptography</i> , 2017 , 1, 4	1.9	19
29	Centralized Algorithms for Redundant Coverage Maximization in Wireless Visual Sensor Networks. <i>IEEE Latin America Transactions</i> , 2016 , 14, 3378-3384	0.7	3
28	Multimedia Transmission in Wireless Sensor Networks. <i>Advances in Multimedia and Interactive Technologies Book Series</i> , 2016 , 230-248	0.2	
27	Assessing Availability in Wireless Visual Sensor Networks Based on Targets Perimeters Coverage. <i>Journal of Electrical and Computer Engineering</i> , 2016 , 2016, 1-14	1.9	5
26	Research trends in wireless visual sensor networks when exploiting prioritization. <i>Sensors</i> , 2015 , 15, 1760-84	9.84	22
25	QoE-aware multiple sinks mobility in wireless sensor networks 2015 ,		2
24	A Survey of Image Security in Wireless Sensor Networks. <i>Journal of Imaging</i> , 2015 , 1, 4-30	3.1	26
23	Optimal sensing redundancy for multiple perspectives of targets in wireless visual sensor networks 2015 ,		7
22	Um Protocolo Genérico Eficiente de Energia para Aplicações em Redes de Sensores sem Fio sem Restrição de Tempo de Resposta. <i>Revista De Tecnologia Da Informação E Comunicação</i> , 2015 , 5, 8-15		
21	Relevance-based balanced sink mobility in wireless visual sensor networks 2014 ,		4
20	Relevance-based partial reliability in wireless sensor networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2014 , 2014,	3.2	2
19	Availability assessment of wireless visual sensor networks for target coverage 2014 ,		7
18	Availability issues in wireless visual sensor networks. <i>Sensors</i> , 2014 , 14, 2795-821	3.8	39
17	Enhancing Redundancy in Wireless Visual Sensor Networks for Target Coverage 2014 ,		5
16	Selecting redundant nodes when addressing availability in wireless visual sensor networks 2014 ,		14

15	Exploiting the sensing relevancies of source nodes for optimizations in visual sensor networks. <i>Multimedia Tools and Applications</i> , 2013 , 64, 549-579	2.5	29
14	Adaptive Monitoring Relevance in Camera Networks for Critical Surveillance Applications. <i>International Journal of Distributed Sensor Networks</i> , 2013 , 9, 836721	1.7	21
13	Partial energy-efficient hop-by-hop retransmission in wireless sensor networks 2013 ,		1
12	Energy-Efficient Packet Relaying in Wireless Image Sensor Networks Exploiting the Sensing Relevancies of Source Nodes and DWT Coding. <i>Journal of Sensor and Actuator Networks</i> , 2013 , 2, 424-448 ^{3.8}	3.8	8
11	Expansion of the available use classes in IEEE 802.15.4 networks for usage in the industrial environment 2012 ,		1
10	A routing mechanism based on the sensing relevancies of source nodes for time-critical applications in visual sensor networks 2012 ,		7
9	Energy-efficient visual monitoring based on the sensing relevancies of source nodes for wireless image sensor networks 2012 ,		3
8	QoV: Assessing the monitoring quality in visual sensor networks 2012 ,		5
7	A Discrete Wavelet Transform (DWT)-Based Energy-Efficient Selective Retransmission Mechanism for Wireless Image Sensor Networks. <i>Journal of Sensor and Actuator Networks</i> , 2012 , 1, 3-35	3.8	18
6	Effect of frame size on energy consumption in wireless image sensor networks 2012 ,		8
5	A semi-reliable energy-efficient retransmission mechanism based on the sensing relevancies of source nodes for wireless image sensor networks 2012 ,		1
4	Coverage-Aware Node-Disjoint Multipath Selection in Wireless Multimedia Sensor Networks 2011 ,		2
3	A survey on multimedia-based cross-layer optimization in visual sensor networks. <i>Sensors</i> , 2011 , 11, 5439-68	3.68	48
2	The coverage problem in video-based wireless sensor networks: a survey. <i>Sensors</i> , 2010 , 10, 8215-47	3.8	81
1	A Survey on Transport Protocols for Wireless Multimedia Sensor Networks. <i>KSI Transactions on Internet and Information Systems</i> ,	1.7	3