

# Daniel G Costa

## List of Publications by Year in descending order

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95  
papers

1,171  
citations

361045

20  
h-index

433756

31  
g-index

95  
all docs

95  
docs citations

95  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Coverage Problem in Video-Based Wireless Sensor Networks: A Survey. <i>Sensors</i> , 2010, 10, 8215-8247.	2.1	100
2	COVID-19 pandemic: a review of smart cities initiatives to face new outbreaks. <i>IET Smart Cities</i> , 2020, 2, 64-73.	1.6	77
3	A Survey on Multimedia-Based Cross-Layer Optimization in Visual Sensor Networks. <i>Sensors</i> , 2011, 11, 5439-5468.	2.1	57
4	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.	4.9	48
5	Availability Issues in Wireless Visual Sensor Networks. <i>Sensors</i> , 2014, 14, 2795-2821.	2.1	47
6	Open-Source Electronics Platforms as Enabling Technologies for Smart Cities: Recent Developments and Perspectives. <i>Electronics (Switzerland)</i> , 2018, 7, 404.	1.8	41
7	A Fuzzy-Based Approach for Sensing, Coding and Transmission Configuration of Visual Sensors in Smart City Applications. <i>Sensors</i> , 2017, 17, 93.	2.1	36
8	Exploiting the sensing relevancies of source nodes for optimizations in visual sensor networks. <i>Multimedia Tools and Applications</i> , 2013, 64, 549-579.	2.6	35
9	A Distributed Multi-Tier Emergency Alerting System Exploiting Sensors-Based Event Detection to Support Smart City Applications. <i>Sensors</i> , 2020, 20, 170.	2.1	33
10	A Survey of Emergencies Management Systems in Smart Cities. <i>IEEE Access</i> , 2022, 10, 61843-61872.	2.6	33
11	Cryptography in Wireless Multimedia Sensor Networks: A Survey and Research Directions. <i>Cryptography</i> , 2017, 1, 4.	1.4	32
12	Visual Sensors Hardware Platforms: A Review. <i>IEEE Sensors Journal</i> , 2020, 20, 4025-4033.	2.4	32
13	A Survey of Image Security in Wireless Sensor Networks. <i>Journal of Imaging</i> , 2015, 1, 4-30.	1.7	31
14	Research Trends in Wireless Visual Sensor Networks When Exploiting Prioritization. <i>Sensors</i> , 2015, 15, 1760-1784.	2.1	29
15	A Crowdsensing Platform for Monitoring of Vehicular Emissions: A Smart City Perspective. <i>Future Internet</i> , 2019, 11, 13.	2.4	29
16	TwitterSensing: An Event-Based Approach for Wireless Sensor Networks Optimization Exploiting Social Media in Smart City Applications. <i>Sensors</i> , 2018, 18, 1080.	2.1	28
17	Enhancing the availability of wireless visual sensor networks: Selecting redundant nodes in networks with occlusion. <i>Applied Mathematical Modelling</i> , 2017, 42, 223-243.	2.2	26
18	Adaptive Monitoring Relevance in Camera Networks for Critical Surveillance Applications. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 836721.	1.3	25

#	ARTICLE	IF	CITATIONS
19	A TinyML Soft-Sensor Approach for Low-Cost Detection and Monitoring of Vehicular Emissions. <i>Sensors</i> , 2022, 22, 3838.	2.1	25
20	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.	2.3	24
21	A prioritization approach for optimization of multiple concurrent sensing applications in smart cities. <i>Future Generation Computer Systems</i> , 2020, 108, 228-243.	4.9	21
22	Selecting redundant nodes when addressing availability in wireless visual sensor networks. , 2014, , .		20
23	On redundant coverage maximization in wireless visual sensor networks: Evolutionary algorithms for multi-objective optimization. <i>Applied Soft Computing Journal</i> , 2019, 82, 105578.	4.1	20
24	Automated Methodology for Dependability Evaluation of Wireless Visual Sensor Networks. <i>Sensors</i> , 2018, 18, 2629.	2.1	19
25	A traffic data clustering framework based on fog computing for VANETs. <i>Vehicular Communications</i> , 2021, 31, 100370.	2.7	17
26	A Survey of Technologies and Recent Developments for Sustainable Smart Cycling. <i>Sustainability</i> , 2021, 13, 3422.	1.6	16
27	An Unsupervised TinyML Approach Applied for Pavement Anomalies Detection Under the Internet of Intelligent Vehicles. , 2021, , .		16
28	CitySpeed: A Crowdsensing-Based Integrated Platform for General-Purpose Monitoring of Vehicular Speeds in Smart Cities. <i>Smart Cities</i> , 2019, 2, 46-65.	5.5	15
29	A fuzzy-based approach for energy-efficient Wi-Fi communications in dense wireless multimedia sensor networks. <i>Computer Networks</i> , 2018, 134, 127-139.	3.2	14
30	Effect of frame size on energy consumption in wireless image sensor networks. , 2012, , .		12
31	Availability assessment of wireless visual sensor networks for target coverage. , 2014, , .		11
32	Assessing Availability in Wireless Visual Sensor Networks Based on Targetsâ€™ Perimeters Coverage. <i>Journal of Electrical and Computer Engineering</i> , 2016, 2016, 1-14.	0.6	11
33	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.	2.6	11
34	On the Computing of Area Coverage by Visual Sensor Networks: Assessing Performance of Approximate and Precise Algorithms. , 2018, , .		10
35	A routing mechanism based on the sensing relevancies of source nodes for time-critical applications in visual sensor networks. , 2012, , .		9
36	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.	2.3	9

#	ARTICLE	IF	CITATIONS
37	Enhancing Redundancy in Wireless Visual Sensor Networks for Target Coverage. , 2014, , .		9
38	Optimal sensing redundancy for multiple perspectives of targets in wireless visual sensor networks. , 2015, , .		7
39	Availability issues for relevant area coverage in wireless visual sensor networks. , 2017, , .		7
40	CO <sub>2</sub> Catcher: A Platform for Monitoring of Vehicular Pollution in Smart Cities. , 2017, , .		7
41	On the Use of Cameras for the Detection of Critical Events in Sensors-Based Emergency Alerting Systems. Journal of Sensor and Actuator Networks, 2020, 9, 46.	2.3	7
42	iBikeSafe: A Multi-Parameter System for Monitoring, Evaluation and Visualization of Cycling Paths in Smart Cities Targeted at Cycling Adverse Conditions. Smart Cities, 2021, 4, 1058-1086.	5.5	7
43	BikeWay: A Multi-Sensory Fuzzy-Based Quality Metric for Bike Paths and Tracks in Urban Areas. IEEE Access, 2020, 8, 227313-227326.	2.6	7
44	QoV: Assessing the monitoring quality in visual sensor networks. , 2012, , .		6
45	New challenges of real-time wireless sensor networks: Theory and applications. International Journal of Distributed Sensor Networks, 2016, 12, 155014771666807.	1.3	6
46	A Comprehensive Dependability Model for QoM-Aware Industrial WSN When Performing Visual Area Coverage in Occluded Scenarios. Sensors, 2020, 20, 6542.	2.1	6
47	A reliability and performance GSPN-Based model for anti-collision RFID algorithms under noisy channels in industrial internet of things. Computers in Industry, 2021, 125, 103381.	5.7	6
48	A Multi-Tier Sensors-based Environmental Monitoring Approach to Assess the Quality of Bike Paths in Urban Areas. , 2020, , .		6
49	Centralized Algorithms for Redundant Coverage Maximization in Wireless Visual Sensor Networks. IEEE Latin America Transactions, 2016, 14, 3378-3384.	1.2	5
50	FoV-Based Quality Assessment and Optimization for Area Coverage in Wireless Visual Sensor Networks. IEEE Access, 2020, 8, 109568-109580.	2.6	5
51	Automatic Assignment of Emergency Vehicles in Response to Sensors-based Generated Alarms in Smart City Scenarios. , 2020, , .		5
52	Relevance-based balanced sink mobility in wireless visual sensor networks. , 2014, , .		4
53	Wireless visual sensor networks redeployment based on dependability optimization. , 2019, , .		4
54	A Survey on Transport Protocols for Wireless Multimedia Sensor Networks. KSII Transactions on Internet and Information Systems, 0, , .	0.7	4

#	ARTICLE	IF	CITATIONS
55	An Optimization Approach for Emergency Vehicles Dispatching and Traffic Lights Adjustments in Response to Emergencies in Smart Cities. , 2021, , .		4
56	Energy-efficient visual monitoring based on the sensing relevancies of source nodes for wireless image sensor networks. , 2012, , .		3
57	Redundant Visual Coverage of Prioritized Targets in IoT Applications. , 2018, , .		3
58	Multiple Mobile Sinks in Event-based Wireless Sensor Networks Exploiting Traffic Conditions in Smart City Applications. , 2018, , .		3
59	An Availability Metric and Optimization Algorithms for Simultaneous Coverage of Targets and Areas by Wireless Visual Sensor Networks. , 2019, , .		3
60	MSensorMob: A Multi-Sensors Hardware Framework to Support the Development of Adaptable Monitoring Units in Mobile Applications. , 2021, , .		3
61	A P2P Architecture to Support Mobile Real-Time Multimedia Communications. Journal of Multimedia, 2010, 5, .	0.3	3
62	Coverage-Aware Node-Disjoint Multipath Selection in Wireless Multimedia Sensor Networks. , 2011, , .		2
63	A semi-reliable energy-efficient retransmission mechanism based on the sensing relevancies of source nodes for wireless image sensor networks. , 2012, , .		2
64	Relevance-based partial reliability in wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	2
65	QoE-aware multiple sinks mobility in wireless sensor networks. , 2015, , .		2
66	Multimedia Transmission in Wireless Sensor Networks. , 2018, , 33-51.		2
67	MovMedia. , 2008, , .		1
68	Expansion of the available use classes in IEEE 802.15.4 networks for usage in the industrial environment. , 2012, , .		1
69	Energy-efficient packet relaying based on the sensing relevancies of source nodes in visual sensor networks. , 2012, , .		1
70	Delay-aware DWT-based image transmission in wireless visual sensor networks. , 2013, , .		1
71	Partial energy-efficient hop-by-hop retransmission in wireless sensor networks. , 2013, , .		1
72	A geometrical approach to compute source prioritization based on target viewing in wireless visual sensor networks. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
73	Efficient Processing of Spatio-Temporal-Textual Queries. , 2017, , .		1
74	Adaptive Sensing Relevance Exploiting Social Media Mining in Smart Cities. , 2017, , .		1
75	On optimal deployment of industrial wireless sensor networks. , 2017, , .		1
76	On the Development of Visual Sensors with Raspberry Pi. , 2018, , .		1
77	A Mathematical Model to Evaluate Visual Sensing Coverage of Emergency Signs on Moving Vehicles. , 2021, , .		1
78	On the development of flexible mobile multi-sensor units based on open-source hardware platforms and a reference framework. HardwareX, 2021, 10, e00243.	1.1	1
79	Interpretação de conteúdo AJAX em páginas dinâmicas para suporte à localização de informações na web. , 2008, , .		0
80	Uma arquitetura P2P para suporte a aplicações multimídia em tempo real com requisitos de mobilidade. , 2008, , .		0
81	An experimental platform for evaluating low power wireless communication systems for industrial applications. , 2017, , .		0
82	Genetic Algorithm for the Nodes Deployment Problem in Industrial Wireless Sensor Networks. , 2018, , .		0
83	VisualCastalia: An Extension to the Castalia/OMNeT++ for Simulations of Image Transmissions in Wireless Sensor Networks. IEEE Latin America Transactions, 2018, 16, 1557-1564.	1.2	0
84	Visual Sensor Networks and Related Applications. Sensors, 2019, 19, 4960.	2.1	0
85	On the mathematical modelling of visual sensors when computing coverage metrics in camera-based sensing applications. , 2021, , .		0
86	MobSIP: A SIP extension to support application layer handover in realtime multimedia communications with mobility requirements. Scientia, 2009, 20, 119-128.	0.2	0
87	Um Protocolo Genérico Eficiente de Energia para Aplicações em Redes de Sensores sem Fio sem Restrição de Tempo de Resposta. Revista De Tecnologia Da Informação E Comunicação, 2015, 5, 8-15.	0.1	0
88	Uma Ferramenta para Suporte ao Ensino do Protocolo AODV. Revista De Ensino De Engenharia, 2015, 34, 71-81.	0.1	0
89	Multimedia Transmission in Wireless Sensor Networks. Advances in Multimedia and Interactive Technologies Book Series, 2016, , 230-248.	0.1	0
90	Simulating Image Communication over Multi-Hop Wireless Sensor Networks Using TOSSIM. International Journal of Digital Information and Wireless Communications, 2018, 8, 168-173.	0.2	0

#	ARTICLE	IF	CITATIONS
91	MobSink: a Visual Mobile Wireless Sensor Networks Positioning Simulator. , 0, , .		0
92	Desenvolvendo Sensores de VÃdeo para a Internet das Coisas com o Raspberry Pi. , 0, , 117-152.		0
93	Um Modelo MatemÃtico para Estimativas do Consumo de Energia em Redes de Sensores Visuais sem Fio. TeMa, 2019, 20, 257.	0.1	0
94	Toward Sustainable Cycling: Modelling and Visualization Issues of Cycle Paths for IoT-based Sensing. , 2021, , .		0
95	A Computer-Assisted Approach to Assess the Precision of the Reciprocating Angles and the Rotation Speeds of Endodontic Motors. Applied System Innovation, 2022, 5, 68.	2.7	0