

Daniel G Costa

List of Publications by Year in descending order

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95
papers

1,171
citations

361413
20
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434195
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. | 3.8 | 100 |
| 2 | COVID-19 pandemic: a review of smart cities initiatives to face new outbreaks. <i>IET Smart Cities</i> , 2020, 2, 64-73. | 3.1 | 77 |
| 3 | A Survey on Multimedia-Based Cross-Layer Optimization in Visual Sensor Networks. <i>Sensors</i> , 2011, 11, 5439-5468. | 3.8 | 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. | 7.5 | 48 |
| 5 | Availability Issues in Wireless Visual Sensor Networks. <i>Sensors</i> , 2014, 14, 2795-2821. | 3.8 | 47 |
| 6 | Open-Source Electronics Platforms as Enabling Technologies for Smart Cities: Recent Developments and Perspectives. <i>Electronics (Switzerland)</i> , 2018, 7, 404. | 3.1 | 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. | 3.8 | 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. | 3.9 | 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. | 3.8 | 33 |
| 10 | A Survey of Emergencies Management Systems in Smart Cities. <i>IEEE Access</i> , 2022, 10, 61843-61872. | 4.2 | 33 |
| 11 | Cryptography in Wireless Multimedia Sensor Networks: A Survey and Research Directions. <i>Cryptography</i> , 2017, 1, 4. | 2.3 | 32 |
| 12 | Visual Sensors Hardware Platforms: A Review. <i>IEEE Sensors Journal</i> , 2020, 20, 4025-4033. | 4.7 | 32 |
| 13 | A Survey of Image Security in Wireless Sensor Networks. <i>Journal of Imaging</i> , 2015, 1, 4-30. | 3.0 | 31 |
| 14 | Research Trends in Wireless Visual Sensor Networks When Exploiting Prioritization. <i>Sensors</i> , 2015, 15, 1760-1784. | 3.8 | 29 |
| 15 | A Crowdsensing Platform for Monitoring of Vehicular Emissions: A Smart City Perspective. <i>Future Internet</i> , 2019, 11, 13. | 3.8 | 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. | 3.8 | 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. | 4.2 | 26 |
| 18 | Adaptive Monitoring Relevance in Camera Networks for Critical Surveillance Applications. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 836721. | 2.2 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A TinyML Soft-Sensor Approach for Low-Cost Detection and Monitoring of Vehicular Emissions. Sensors, 2022, 22, 3838. | 3.8 | 25 |
| 20 | A Discrete Wavelet Transform (DWT)-Based Energy-Efficient Selective Retransmission Mechanism for Wireless Image Sensor Networks. Journal of Sensor and Actuator Networks, 2012, 1, 3-35. | 3.9 | 24 |
| 21 | A prioritization approach for optimization of multiple concurrent sensing applications in smart cities. Future Generation Computer Systems, 2020, 108, 228-243. | 7.5 | 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. Applied Soft Computing Journal, 2019, 82, 105578. | 7.2 | 20 |
| 24 | Automated Methodology for Dependability Evaluation of Wireless Visual Sensor Networks. Sensors, 2018, 18, 2629. | 3.8 | 19 |
| 25 | A traffic data clustering framework based on fog computing for VANETs. Vehicular Communications, 2021, 31, 100370. | 4.0 | 17 |
| 26 | A Survey of Technologies and Recent Developments for Sustainable Smart Cycling. Sustainability, 2021, 13, 3422. | 3.2 | 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. Smart Cities, 2019, 2, 46-65. | 9.4 | 15 |
| 29 | A fuzzy-based approach for energy-efficient Wi-Fi communications in dense wireless multimedia sensor networks. Computer Networks, 2018, 134, 127-139. | 5.1 | 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. Journal of Electrical and Computer Engineering, 2016, 2016, 1-14. | 0.9 | 11 |
| 33 | Modelling Coverage Failures Caused by Mobile Obstacles for the Selection of Faultless Visual Nodes in Wireless Sensor Networks. IEEE Access, 2020, 8, 41537-41550. | 4.2 | 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. Journal of Sensor and Actuator Networks, 2013, 2, 424-448. | 3.9 | 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 ₂ 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. | 3.9 | 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. | 9.4 | 7 |
| 43 | BikeWay: A Multi-Sensory Fuzzy-Based Quality Metric for Bike Paths and Tracks in Urban Areas. IEEE Access, 2020, 8, 227313-227326. | 4.2 | 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. | 2.2 | 6 |
| 46 | A Comprehensive Dependability Model for QoM-Aware Industrial WSN When Performing Visual Area Coverage in Occluded Scenarios. Sensors, 2020, 20, 6542. | 3.8 | 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. | 9.9 | 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. | 1.6 | 5 |
| 50 | FoV-Based Quality Assessment and Optimization for Area Coverage in Wireless Visual Sensor Networks. IEEE Access, 2020, 8, 109568-109580. | 4.2 | 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, , . | 0.3 | 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, . | 2.4 | 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 |

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|----|---|-----|-----------|
| 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. | 2.2 | 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. | 1.6 | 0 |
| 84 | Visual Sensor Networks and Related Applications. Sensors, 2019, 19, 4960. | 3.8 | 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. | 0.2 | 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. | 4.6 | 0 |