

# Francisco Vasques

## List of Publications by Citations

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161  
papers

1,263  
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16  
h-index

28  
g-index

183  
ext. papers

1,604  
ext. citations

3.4  
avg, IF

4.49  
L-index

| #   | Paper  | IF    | Citations |
|-----|--|-------|-----------|
| 161 | Reliability and availability evaluation of Wireless Sensor Networks for industrial applications. <i>Sensors</i> , <b>2012</b> , 12, 806-38   | 3.8   | 121       |
| 160 | . <i>IEEE Transactions on Industrial Electronics</i> , <b>1999</b> , 46, 1241-1251   | 8.9   | 115       |
| 159 | An approach to implement data fusion techniques in wireless sensor networks using genetic machine learning algorithms. <i>Information Fusion</i> , <b>2014</b> , 15, 90-101            | 16.7  | 48        |
| 158 | VTP-CSMA: A Virtual Token Passing Approach for Real-Time Communication in IEEE 802.11 Wireless Networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2007</b> , 3, 215-224 | 11.9  | 41        |
| 157 | Cycle time properties of the PROFIBUS timed-token protocol. <i>Computer Communications</i> , <b>1999</b> , 22, 1206-1216   | 12.16 | 41        |
| 156 | Availability issues in wireless visual sensor networks. <i>Sensors</i> , <b>2014</b> , 14, 2795-821  | 3.8   | 39        |
| 155 | Reliable real-time communication in CAN networks. <i>IEEE Transactions on Computers</i> , <b>2003</b> , 52, 1594-1607  | 7.5   | 34        |
| 154 | Schedulability analysis of real-time traffic in WorldFIP networks: an integrated approach. <i>IEEE Transactions on Industrial Electronics</i> , <b>2002</b> , 49, 1165-1174            | 8.9   | 29        |
| 153 | Estimating the Lifetime of Wireless Sensor Network Nodes through the Use of Embedded Analytical Battery Models. <i>Journal of Sensor and Actuator Networks</i> , <b>2017</b> , 6, 8    | 3.8   | 25        |
| 152 | A Temperature-Dependent Battery Model for Wireless Sensor Networks. <i>Sensors</i> , <b>2017</b> , 17,   | 3.8   | 23        |
| 151 | Research trends in wireless visual sensor networks when exploiting prioritization. <i>Sensors</i> , <b>2015</b> , 15, 1760-84  | 9.84  | 22        |
| 150 | Adaptive Monitoring Relevance in Camera Networks for Critical Surveillance Applications. <i>International Journal of Distributed Sensor Networks</i> , <b>2013</b> , 9, 836721         | 1.7   | 21        |
| 149 | Real-time communications over hybrid wired/wireless PROFIBUS-based networks  |       | 19        |
| 148 | A new MAC scheme specifically suited for real-time industrial communication based on IEEE 802.11e. <i>Computers and Electrical Engineering</i> , <b>2013</b> , 39, 1684-1704           | 4.3   | 18        |
| 147 | Integrating inaccessibility in response time analysis of CAN networks  |       | 18        |
| 146 | Enhancing the availability of wireless visual sensor networks: Selecting redundant nodes in networks with occlusion. <i>Applied Mathematical Modelling</i> , <b>2017</b> , 42, 223-243 | 4.5   | 16        |
| 145 | Guaranteeing real-time message deadlines in PROFIBUS networks  |       | 16        |

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|-----|--|------|----|
| 144 | Distributed computing for the factory-floor: a real-time approach using WorldFIP networks. <i>Computers in Industry</i> , <b>2001</b> , 44, 11-31  | 11.6 | 16 |
| 143 | Selecting redundant nodes when addressing availability in wireless visual sensor networks <b>2014</b> ,  |      | 14 |
| 142 | Performance evaluation of a compression algorithm for wireless sensor networks in monitoring applications <b>2008</b> ,  |      | 14 |
| 141 | Simulation Analysis of the IEEE 802.11e EDCA Protocol for an Industrially-Relevant Real-Time Communication Scenario <b>2006</b> ,  |      | 14 |
| 140 | NetCoDer: A Retransmission Mechanism for WSNs Based on Cooperative Relays and Network Coding. <i>Sensors</i> , <b>2016</b> , 16,   | 3.8  | 14 |
| 139 | Handling real-time communication in infrastructured IEEE 802.11 wireless networks: The RT-WiFi approach. <i>Journal of Communications and Networks</i> , <b>2019</b> , 21, 319-334               | 4.1  | 13 |
| 138 | Supporting real-time distributed computer-controlled systems with multi-hop P-NET networks. <i>Control Engineering Practice</i> , <b>1999</b> , 7, 1015-1025                                     | 3.9  | 13 |
| 137 |  |      | 13 |
| 136 | A TDMA-based mechanism for real-time communication in IEEE 802.11e networks <b>2010</b> ,  |      | 12 |
| 135 | A Distributed Multi-Tier Emergency Alerting System Exploiting Sensors-Based Event Detection to Support Smart City Applications. <i>Sensors</i> , <b>2019</b> , 20,                               | 3.8  | 12 |
| 134 | Superframe Duration Allocation Schemes to Improve the Throughput of Cluster-Tree Wireless Sensor Networks. <i>Sensors</i> , <b>2017</b> , 17,  | 3.8  | 11 |
| 133 | A review of scalability and topological stability issues in IEEE 802.11s wireless mesh networks deployments. <i>International Journal of Communication Systems</i> , <b>2016</b> , 29, 671-693   | 1.7  | 11 |
| 132 | Assessment of the IEEE 802.11e EDCA Protocol Limitations when Dealing with Real-Time Communication. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2010</b> , 2010,       | 3.2  | 11 |
| 131 | Automated Methodology for Dependability Evaluation of Wireless Visual Sensor Networks. <i>Sensors</i> , <b>2018</b> , 18,  | 3.8  | 11 |
| 130 | Editorial Special Section on Communication in Automation. <i>IEEE Transactions on Industrial Informatics</i> , <b>2006</b> , 2, 73-77  | 11.9 | 10 |
| 129 | Real-time communication in unconstrained shared Ethernet networks: the virtual token-passing approach  |      | 10 |
| 128 | Timing analysis of reliable real-time communication in CAN networks  |      | 10 |
| 127 | (m,k)-firm pattern spinning to improve the GTS allocation of periodic messages in IEEE 802.15.4 networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2013</b> , 2013, | 3.2  | 9  |

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|-----|---|-----|---|
| 126 | Challenges in Health Smart Homes <b>2008</b> ,  |     | 9 |
| 125 | A Stochastic Petri Net Model for the Simulation Analysis of the IEEE 802.11e EDCA Communication Protocol <b>2006</b> ,  |     | 9 |
| 124 | Simulation models for IEC 61850 communication in electrical substations using GOOSE and SMV time-critical messages <b>2016</b> ,  |     | 9 |
| 123 | Outlier detection using k-means clustering and lightweight methods for Wireless Sensor Networks <b>2016</b> ,   |     | 9 |
| 122 | An Optimized Relay Selection Technique to Improve the Communication Reliability in Wireless Sensor Networks. <i>Sensors</i> , <b>2018</b> , 18,   | 3.8 | 9 |
| 121 | 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> , <b>2013</b> , 2, 424-448 | 3.8 | 8 |
| 120 | A DHT-based approach for Path Selection and Message Forwarding in IEEE 802.11s industrial Wireless Mesh Networks <b>2009</b> ,  |     | 8 |
| 119 | Effect of frame size on energy consumption in wireless image sensor networks <b>2012</b> ,  |     | 8 |
| 118 | Genetic Machine Learning algorithms in the optimization of communication efficiency in Wireless Sensor Networks <b>2009</b> ,   |     | 8 |
| 117 | Limitations of the IEEE 802.11e EDCA protocol when supporting real-time communication <b>2008</b> ,   |     | 8 |
| 116 | Replication Management in Reliable Real-Time Systems. <i>Real-Time Systems</i> , <b>2004</b> , 26, 261-296  | 1.3 | 8 |
| 115 | A scheme for slot allocation of the FlexRay Static Segment based on response time analysis. <i>Computer Communications</i> , <b>2015</b> , 63, 65-76  | 5.1 | 7 |
| 114 | Reliability Evaluation of Broadcast Protocols for FlexRay. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 525-541   | 6.8 | 7 |
| 113 | Limitations of the IEEE 802.11 DCF, PCF, EDCA and HCCA to handle real-time traffic <b>2015</b> ,  |     | 7 |
| 112 | Optimal sensing redundancy for multiple perspectives of targets in wireless visual sensor networks <b>2015</b> ,  |     | 7 |
| 111 | Availability assessment of wireless visual sensor networks for target coverage <b>2014</b> ,  |     | 7 |
| 110 | A routing mechanism based on the sensing relevancies of source nodes for time-critical applications in visual sensor networks <b>2012</b> ,   |     | 7 |
| 109 | Enforcing the timing behavior of real-time stations in legacy bus-based industrial Ethernet networks. <i>Computer Standards and Interfaces</i> , <b>2011</b> , 33, 249-261                                      | 3.5 | 7 |

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|-----|--|-----|---|
| 108 | Distributed DBP: A (m,k)-firm based distributed approach for QoS provision in IEEE 802.15.4 networks <b>2009</b> ,   |     | 7 |
| 107 | A coordination layer to handle real-time communication in Wi-Fi networks with uncontrolled traffic sources <b>2011</b> ,   |     | 7 |
| 106 | A TDMA-based mechanism to enforce real-time behavior in WiFi networks <b>2008</b> ,  |     | 7 |
| 105 | A reference model for the timing analysis of heterogeneous automotive networks. <i>Computer Standards and Interfaces</i> , <b>2016</b> , 45, 13-25   | 3.5 | 6 |
| 104 | Experimental evaluation of multiple retransmission schemes in IEEE 802.15.4 wireless sensor networks <b>2012</b> ,   |     | 6 |
| 103 | Evaluation of the timing properties of two control networks: CAN and PROFIBUS  |     | 6 |
| 102 | <b>1994</b> ,  |     | 6 |
| 101 | Timing Analysis of hybrid FlexRay, CAN-FD and CAN vehicular networks <b>2016</b> ,   |     | 6 |
| 100 | CT-SIM: A simulation model for wide-scale cluster-tree networks based on the IEEE 802.15.4 and ZigBee standards. <i>International Journal of Distributed Sensor Networks</i> , <b>2017</b> , 13, 155014771769847 | 1.7 | 5 |
| 99  | Modelling Coverage Failures Caused by Mobile Obstacles for the Selection of Faultless Visual Nodes in Wireless Sensor Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 41537-41550                                | 3.5 | 5 |
| 98  | Enhancing Redundancy in Wireless Visual Sensor Networks for Target Coverage <b>2014</b> ,  |     | 5 |
| 97  | QoV: Assessing the monitoring quality in visual sensor networks <b>2012</b> ,  |     | 5 |
| 96  | Guaranteeing real-time message deadlines in the FlexRay static segment using a on-line scheduling approach <b>2012</b> ,   |     | 5 |
| 95  | Communication Response Time in P-NET Networks: Worst-Case Analysis Considering the Actual Token Utilization. <i>Real-Time Systems</i> , <b>2002</b> , 22, 229-249  | 1.3 | 5 |
| 94  | Combining Network Coding and Retransmission Techniques to Improve the Communication Reliability of Wireless Sensor Network. <i>Information (Switzerland)</i> , <b>2021</b> , 12, 184                             | 2.6 | 5 |
| 93  | Experimental validation of a battery model for low-power nodes in Wireless Sensor Networks <b>2016</b> ,   |     | 5 |
| 92  | An Advanced Battery Model for WSN Simulation in Environments With Temperature Variations. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 8179-8191  | 4   | 5 |
| 91  | A WSN data retransmission mechanism based on network coding and cooperative relayers <b>2015</b> ,   |     | 4 |

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| 90 | Real-Time Analysis of Time-Critical Messages in IEC 61850 Electrical Substation Communication Systems. <i>Energies</i> , <b>2019</b> , 12, 2272   | 3.1 | 4 |
| 89 | Relevance-based balanced sink mobility in wireless visual sensor networks <b>2014</b> ,   |     | 4 |
| 88 | Modeling the reliability of a group membership protocol for dual-scheduled time division multiple access networks. <i>Computer Standards and Interfaces</i> , <b>2012</b> , 34, 281-291     | 3.5 | 4 |
| 87 | Assessment of the Interference caused by uncontrolled traffic sources upon real-time communication in IEEE 802.11-based mesh networks <b>2012</b> ,   |     | 4 |
| 86 | Energy consumption and spatial diversity trade-off in autonomic Wireless Sensor Networks: The (m,k)-Gur Game approach <b>2013</b> ,   |     | 4 |
| 85 | Survey of Real-Time Communication in CSMA-Based Networks. <i>Network Protocols and Algorithms</i> , <b>2010</b> , 2,  | 0.3 | 4 |
| 84 | A new AODV-based routing protocol adequate for monitoring applications in oil & gas production environments <b>2010</b> ,   |     | 4 |
| 83 | DHT-based Cluster Routing Protocol for IEEE802.11s Mesh networks <b>2009</b> ,  |     | 4 |
| 82 | A forcing collision resolution approach able to prioritize traffic in CSMA-based networks. <i>Computer Communications</i> , <b>2010</b> , 33, 54-64   | 5.1 | 4 |
| 81 | Real-Time Communication in 802.11 Networks: The Virtual Token Passing VTP-CSMA Approach. <i>Local Computer Networks (LCN), Proceedings of the IEEE Conference on</i> , <b>2006</b> ,        |     | 4 |
| 80 | A group membership protocol for communication systems with both static and dynamic scheduling <b>2006</b> ,   |     | 4 |
| 79 | MULTI-MASTER PROFIBUS DP MODELLING AND WORST CASE ANALYSIS-BASED EVALUATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 343-348 |     | 4 |
| 78 | Non pre-emptive scheduling of messages on SMTV token-passing networks   |     | 4 |
| 77 |   |     | 4 |
| 76 | From task scheduling in single processor environments to message scheduling in a PROFIBUS fieldbus network. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 339-352                | 0.9 | 4 |
| 75 | Dynamic Reconfiguration of Cluster-Tree Wireless Sensor Networks to Handle Communication Overloads in Disaster-Related Situations. <i>Sensors</i> , <b>2020</b> , 20,                       | 3.8 | 4 |
| 74 | GLHOVE: A framework for uniform coverage monitoring using cluster-tree wireless sensor networks <b>2013</b> ,   |     | 3 |
| 73 | A framework to support dependability evaluation of WSNs from AADL models <b>2015</b> ,  |     | 3 |

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| 72 | Real-Time Industrial Communication over IEEE802.11e Wireless Local Area Networks. <i>IEEE Latin America Transactions</i> , <b>2012</b> , 10, 1844-1849  | 0.7 | 3 |
| 71 | Real-Time Communication for Smart Sensor Networks: A CAN Based Solution. <i>Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on</i> , <b>2007</b> ,  |     | 3 |
| 70 | Real-time traffic separation in shared Ethernet networks: simulation analysis of the h-BEB collision resolution algorithm   |     | 3 |
| 69 | Analysis of the Worst-Case Real Token Rotation Time in PROFIBUS Networks <b>1999</b> , 359-366  |     | 3 |
| 68 | 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> , <b>2020</b> , 9, 46  | 3.8 | 2 |
| 67 | Alternative Path Communication in Wide-Scale Cluster-Tree Wireless Sensor Networks Using Inactive Periods. <i>Sensors</i> , <b>2017</b> , 17,   | 3.8 | 2 |
| 66 | Experimental assessment of LNC-based cooperative communication schemes using commercial off-the-shelf wireless sensor network nodes. <i>International Journal of Communication Systems</i> , <b>2018</b> , 31, e3508      | 1.7 | 2 |
| 65 | Relevance-based partial reliability in wireless sensor networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2014</b> , 2014,   | 3.2 | 2 |
| 64 | DCRP: a scalable path selection and forwarding scheme for IEEE 802.11s wireless mesh networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2015</b> , 2015,                                     | 3.2 | 2 |
| 63 | Evaluating the impact of uncontrolled traffic sources upon real-time communication in IEEE 802.11s mesh networks <b>2014</b> ,  |     | 2 |
| 62 | Comparing RT-WiFi and HCCA approaches to handle real-time traffic in open communication environments <b>2012</b> ,  |     | 2 |
| 61 | Preliminary results on the assessment of WirelessHART networks in transient fault scenarios <b>2011</b> ,   |     | 2 |
| 60 | A 2-tier architecture to support real-time communication in CSMA-based networks <b>2008</b> ,   |     | 2 |
| 59 | A comparison of the communication impact in CAN and TTP/C networks when supporting steer-by-wire systems  |     | 2 |
| 58 | PROBABILISTIC TIMING ANALYSIS OF THE h-BEB COLLISION RESOLUTION ALGORITHM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 107-114                                 |     | 2 |
| 57 | A MODEL BASED ON A STOCHASTIC PETRI NET APPROACH FOR DEPENDABILITY EVALUATION OF CONTROLLER AREA NETWORKS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 150-157 |     | 2 |
| 56 | Schedulability analysis of messages in a CAN network applied to an unmanned airship   |     | 2 |
| 55 | Designing Real-Time Systems Based on Mono-Master Profibus-DP Networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 19-26                                       |     | 2 |

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|----|--|-----|---|
| 54 | Pre-run-time schedulability analysis of P-NET fieldbus networks  |     | 2 |
| 53 | Using Ravenscar to support fault-tolerant real-time applications. <i>ACM SIGAda Ada Letters</i> , <b>2002</b> , XXII, 47-52  | 0.4 | 2 |
| 52 | Polynomial Approximation of the Battery Discharge Function in IEEE 802.15.4 Nodes: Case Study of MicaZ. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 901-910   | 0.4 | 2 |
| 51 | FoV-Based Quality Assessment and Optimization for Area Coverage in Wireless Visual Sensor Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 109568-109580  | 3.5 | 2 |
| 50 | A Comprehensive Dependability Model for QoM-Aware Industrial WSN When Performing Visual Area Coverage in Occluded Scenarios. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8 | 2 |
| 49 | AdapTA: Adaptive timeslot allocation scheme for IEEE 802.15.4e LLDN mode <b>2016</b> ,   |     | 2 |
| 48 | A Survey of Emergencies Management Systems in Smart Cities. <i>IEEE Access</i> , <b>2022</b> , 1-1   | 3.5 | 2 |
| 47 | An opportunistic approach to deal with real-time mesh communication in wireless sensor networks <b>2014</b> ,  |     | 1 |
| 46 | Quality of service provision assessment for DDBP approach in IEEE 802.15.4 networks <b>2014</b> ,  |     | 1 |
| 45 | Real-time communication in IEEE 802.11s mesh networks: simulation assessment considering the interference of non-real-time traffic sources. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2014</b> , 2014, | 3.2 | 1 |
| 44 | Guaranteed Time Slot allocation for periodic messages with (m, k)-firm constraints in IEEE 802.15.4 networks <b>2012</b> ,   |     | 1 |
| 43 | Expansion of the available use classes in IEEE 802.15.4 networks for usage in the industrial environment <b>2012</b> ,   |     | 1 |
| 42 | Partial energy-efficient hop-by-hop retransmission in wireless sensor networks <b>2013</b> ,   |     | 1 |
| 41 | Implementing the wireless FTT protocol: A feasibility analysis <b>2010</b> ,   |     | 1 |
| 40 | The impact of control delay upon the performance of a DC-motor control: Comparison of a centralized vs. a network-based approach <b>2009</b> ,   |     | 1 |
| 39 | Reliable communication for DuST networks <b>2009</b> ,   |     | 1 |
| 38 | A proposal of real-time publish-subscribe scheme compatible with 802.11e wireless networks <b>2009</b> ,   |     | 1 |
| 37 | Technical and economical assessment of the use of wireless gateways in industrial networks <b>2009</b> ,   |     | 1 |



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| 36 | A semi-reliable energy-efficient retransmission mechanism based on the sensing relevancies of source nodes for wireless image sensor networks <b>2012</b> ,  |      | 1 |
| 35 | On the timeliness of multi-hop non-beaconed ZigBee broadcast communications <b>2008</b> ,  |      | 1 |
| 34 | Guest Editorial Special Section on Communication in Automation Part I. <i>IEEE Transactions on Industrial Informatics</i> , <b>2008</b> , 4, 2-5   | 11.9 | 1 |
| 33 | An Event-Triggered Smart Sensor Network Architecture. <i>Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on</i> , <b>2007</b> ,  |      | 1 |
| 32 | Distributed Computer-Controlled Systems: The Dear-COTS Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 113-120  |      | 1 |
| 31 | Engineering Real-Time Applications with WorldFIP: Analysis and Tools. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 245-250                                       |      | 1 |
| 30 | Replica management in real-time Ada 95 applications <b>1999</b> ,  |      | 1 |
| 29 | Automatic Assignment of Emergency Vehicles in Response to Sensors-based Generated Alarms in Smart City Scenarios <b>2020</b> ,   |      | 1 |
| 28 | Reliable Communication in Distributed Computer-Controlled Systems. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 136-147  | 0.9  | 1 |
| 27 | Probabilistic Timing Analysis of the h-Beb Collision Resolution Algorithm <b>2006</b> , 107-114  |      | 1 |
| 26 | Formal Verification of a Group Membership Protocol Using Model Checking <b>2007</b> , 471-488  |      | 0 |
| 25 | RT-WiFi Approach to Handle Real-Time Communication: An Experimental Evaluation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 290-303   | 0.9  | 0 |
| 24 | Multi-criteria Analysis to Select Relay Nodes in the ORST Technique. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 167-182  | 0.9  | 0 |
| 23 | Special issue with selected papers from 2018 Brazilian Symposium on Computer Engineering (SBESC 2018). <i>Design Automation for Embedded Systems</i> , <b>2020</b> , 24, 1-2   | 0.6  |   |
| 22 | Recovery Effect in Low-Power Nodes of Wireless Sensor Networks. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 45-62  | 0.3  |   |
| 21 | Dynamic GTS Scheduling of Periodic Skippable Slots in IEEE 802.15.4 Wireless Sensor Networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 110-117               |      |   |
| 20 | GSC: A REAL-TIME COMMUNICATION SCHEME FOR IEEE 802.11E INDUSTRIAL SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 111-118                                  |      |   |
| 19 | IMPLEMENTATION OF AN EVENT-TRIGGERED SMART SENSOR NETWORK ARCHITECTURE BASED ON THE IEEE 802.15.4 STANDARD. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 279-284 |      |   |

- 18 A Quality-of-Service (QoS) Based Approach for the Communication Support in Network-Based Control Systems: An On-Going Project. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2004**, 37, 641-646
- 17 Setting Target Rotation Time in Profibus Based Real-Time Distributed Applications. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1998**, 31, 1-6
- 16 Multi- $\square$ ACM SIGAda Ada Letters, **1998**, XVIII, 52-60 0.4
- 15 Replica management in real-time Ada 95 applications. *ACM SIGAda Ada Letters*, **1999**, XIX, 21-27 0.4
- 14 To Ada or not to Ada. *ACM SIGAda Ada Letters*, **1999**, XIX, 37-43 0.4
- 13 Wireless IEEE 802.11-Based Networking Approaches for Industrial Networked Systems 286-305
- 12 An Architecture for Reliable Distributed Computer-Controlled Systems. *IFIP Advances in Information and Communication Technology*, **2001**, 43-52 0.5
- 11 Programming atomic multicast in CAN. *ACM SIGAda Ada Letters*, **2001**, XXI, 79-84 0.4
- 10 Transparent Environment for Replicated Ravenscar Applications. *Lecture Notes in Computer Science*, **2002**, 297-308 0.9
- 9 A Model Based on a Stochastic Petri Net Approach for Dependability Evaluation of Controller Area Networks **2006**, 150-157
- 8 A Reliability Evaluation of a Group Membership Protocol. *Lecture Notes in Computer Science*, **2007**, 397-409
- 7 Supporting Real-Time Communication in Large-Scale Wireless Sensor Networks **2015**, 7371-7380
- 6 Routing Protocols for IEEE 802.11-Based Mesh Networks **2015**, 6295-6306
- 5 Real-Time Communication Support in IEEE 802.11-Based Wireless Mesh Networks **2015**, 7247-7259
- 4 Exploiting DHT's Properties to Improve the Scalability of Mesh Networks **2015**, 6177-6185
- 3 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
- 2 Using BDI-Agents with Coordination without Communication to Increase Lifetime, Preserving Autonomy and Flexibility in Wireless Sensor Networks. *Lecture Notes in Computer Science*, **2010**, 243-252<sup>0.9</sup>
- 1 WorldFip. *The Electrical Engineering Handbook*, **2011**, 1-18

