Juan Carlos Lopez

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Phyx.io: Expert-Based Decision Making for the Selection of At-Home Rehabilitation Solutions for Active and Healthy Aging. International Journal of Environmental Research and Public Health, 2022, 19, 5490. | 2.6 | 3 |
| 2 | Bedtime Monitoring for Fall Detection and Prevention in Older Adults. International Journal of Environmental Research and Public Health, 2022, 19, 7139. | 2.6 | 5 |
| 3 | Indoor occupancy estimation for smart utilities: A novel approach based on depth sensors. Building and Environment, 2022, 222, 109406. | 6.9 | 8 |
| 4 | Towards Test-Driven Development for FPGA-Based Modules Across Abstraction Levels. IEEE Access, 2021, 9, 31581-31594. | 4.2 | 3 |
| 5 | COVID19-Routes: A Safe Pedestrian Navigation Service. IEEE Access, 2021, 9, 93433-93449. | 4.2 | 3 |
| 6 | Leveraging commonsense reasoning towards a smarter Smart Home. Procedia Computer Science, 2021, 192, 666-675. | 2.0 | 1 |
| 7 | A Dataflow Architecture for Real-Time Full-Search Block Motion Estimation. Lecture Notes in Computer Science, 2021, , 232-241. | 1.3 | 0 |
| 8 | Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. IEEE Internet of Things Journal, 2021, 8, 16692-16704. | 8.7 | 42 |
| 9 | Autonomous CPSoS for Cognitive Large Manufacturing Industries. , 2021, , . | | 0 |
| 10 | The SHAPES Smart Mirror Approach for Independent Living, Healthy and Active Ageing. Sensors, 2021, 21, 7938. | 3.8 | 9 |
| 11 | FPGA-Based Solution for On-Board Verification of Hardware Modules Using HLS. Electronics (Switzerland), 2020, 9, 2024. | 3.1 | 2 |
| 12 | Robotics vs. Game-Console-Based Platforms to Learn Computer Architecture. IEEE Access, 2020, 8, 95153-95169. | 4.2 | 4 |
| 13 | A Proposal for Modeling Indoor–Outdoor Spaces through IndoorGML, Open Location Code and OpenStreetMap. ISPRS International Journal of Geo-Information, 2020, 9, 169. | 2.9 | 4 |
| 14 | A Multiple-Attribute Decision Making-based approach for smart city rankings design. Technological Forecasting and Social Change, 2019, 142, 42-55. | 11.6 | 46 |
| 15 | A computer-vision-based system for at-home rheumatoid arthritis rehabilitation. International Journal of Distributed Sensor Networks, 2019, 15, 155014771987564. | 2.2 | 6 |
| 16 | Testing framework for on-board verification of HLS modules using grey-box technique and FPGA overlays. The Integration VLSI Journal, 2019, 68, 129-138. | 2.1 | 4 |
| 17 | A Testbed and an Experimental Public Dataset for Energy-Harvested IoT Solutions. , 2019, , . | | 3 |
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Aerial-Ground Collaborative Pathfinding with HLSTL using FPGAs. , 2019, , .

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| 19 | Experimenting Forecasting Models for Solar Energy Harvesting Devices for Large Smart Cities Deployments. , 2019, , . | | 4 |
| 20 | The PLATINO Experience: A LoRa-based Network of Energy-Harvesting Devices for Smart Farming. , 2019, , | | 8 |
| 21 | HALib: Hardware Assertion Library for on-board verification of FPGA-based modules using HLS. , 2019, , | | 0 |
| 22 | A Dynamic Programming Algorithm for High-Level Task Scheduling in Energy Harvesting IoT. IEEE Internet of Things Journal, 2018, 5, 2234-2248. | 8.7 | 48 |
| 23 | Statistical Energy Neutrality in IoT Hybrid Energy-Harvesting Networks. , 2018, , . | | 11 |
| 24 | A common-sense based system for Geo-IoT. Procedia Computer Science, 2018, 126, 665-674. | 2.0 | 8 |
| 25 | Testing Framework for in-Hardware Verification of the Hardware Modules Generated Using HLS. , 2018, , . | | 0 |
| 26 | Enabling smart behavior through automatic service composition for Internet of Things–based Smart Homes. International Journal of Distributed Sensor Networks, 2018, 14, 155014771879461. | 2.2 | 8 |
| 27 | Heterogeneous SoC-based acceleration of MPEC-7 compliance image retrieval process. Journal of Real-Time Image Processing, 2018, 15, 161-172. | 3.5 | 4 |
| 28 | A comprehensive common-sense-based architecture for understanding voltage-sag events in electrical grids. Integrated Computer-Aided Engineering, 2018, 25, 397-416. | 4.6 | 1 |
| 29 | Rapid Prototyping and Verification of Hardware Modules Generated UsingÂHLS. Lecture Notes in Computer Science, 2018, , 446-458. | 1.3 | 2 |
| 30 | Synthesis of simulation and implementation code for OpenMAX multimedia heterogeneous systems from UML/MARTE models. Multimedia Tools and Applications, 2017, 76, 8195-8226. | 3.9 | 2 |
| 31 | Non-linear classifiers applied to EEG analysis for epilepsy seizure detection. Expert Systems With Applications, 2017, 86, 99-112. | 7.6 | 53 |
| 32 | Hierarchical Task Network planning with common-sense reasoning for multiple-people behaviour analysis. Expert Systems With Applications, 2017, 69, 118-134. | 7.6 | 4 |
| 33 | IDM: An inter-domain messaging protocol for IoT. , 2017, , . | | 4 |
| 34 | Learning computer structure through an ARM-based Arduino platform. , 2017, , . | | 2 |
| 35 | Early Detection of Hypoglycemia Events Based on Biometric Sensors Prototyped on FPGAs. Lecture Notes in Computer Science, 2016, , 133-145. | 1.3 | 3 |
| 36 | A semantic middleware architecture for supporting real smartness. , 2016, , . | | 1 |

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| 37 | Off-the-Shelf Embedded Middleware Solution for UAVs HW-SW Platform Development. , 2016, , . | | Ο |
| 38 | An adaptive emergency protocol for people evacuation in high-rise buildings. , 2016, , . | | 4 |
| 39 | Building a Dynamically Reconfigurable System Through a High-Level Development Flow. Lecture Notes in Electrical Engineering, 2016, , 51-73. | 0.4 | 1 |
| 40 | Data stream visualization framework for smart cities. Soft Computing, 2016, 20, 1671-1681. | 3.6 | 7 |
| 41 | Kinect and Episodic Reasoning for Human Action Recognition. Advances in Intelligent Systems and Computing, 2016, , 147-154. | 0.6 | 2 |
| 42 | Reducción del Tiempo de Terminación en la Programación de la Producción de una LÃnea de Flujo HÃbrida Flexible (HFS). Informacion Tecnologica (discontinued), 2015, 26, 157-172. | 0.3 | 4 |
| 43 | Integrating Reconfigurable Hardware-Based Grid for High Performance Computing. Scientific World Journal, The, 2015, 2015, 1-19. | 2.1 | 6 |
| 44 | Building a dynamically reconfigurable system through a high development flow. , 2015, , . | | 1 |
| 45 | Crowdsensing smart city parking monitoring. , 2015, , . | | 20 |
| 46 | FPGA acceleration of semantic tree reasoning algorithms. Journal of Systems Architecture, 2015, 61, 185-196. | 4.3 | 4 |
| 47 | A Scalable and Dynamically Reconfigurable FPGA-Based Embedded System for Real-Time Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2894-2911. | 4.9 | 12 |
| 48 | New topology for DC/DC bidirectional converter for hybrid systems in renewable energy. International Journal of Electronics, 2015, 102, 418-432. | 1.4 | 16 |
| 49 | Run-Time Partial Reconfiguration Simulation Framework Based on Dynamically Loadable Components. Lecture Notes in Computer Science, 2015, , 153-164. | 1.3 | 0 |
| 50 | Facilitating Preemptive Hardware System Design Using Partial Reconfiguration Techniques. Scientific World Journal, The, 2014, 2014, 1-15. | 2.1 | 2 |
| 51 | Ubiquitous Virtual Private Network: A Solution for WSN Seamless Integration. Sensors, 2014, 14, 779-794. | 3.8 | 3 |
| 52 | Real-Time Algebraic Derivative Estimations Using a Novel Low-Cost Architecture Based on Reconfigurable Logic. Sensors, 2014, 14, 9349-9368. | 3.8 | 7 |
| 53 | Smart City Data Stream Visualization Using Clyphs. , 2014, , . | | 5 |
| 54 | More robustness and flexibility for FPGA based networked embedded systems through hardware indirect proxies. , 2014, , . | | 0 |

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| 55 | Methodology for developing an advanced communications system for the Deaf in a new domain. Knowledge-Based Systems, 2014, 56, 240-252. | 7.1 | 22 |
| 56 | Distributed FPGA-based architecture to support indoor localisation and orientation services. Journal of Network and Computer Applications, 2014, 45, 181-190. | 9.1 | 5 |
| 57 | Translating bus information into sign language for deaf people. Engineering Applications of Artificial Intelligence, 2014, 32, 258-269. | 8.1 | 20 |
| 58 | A multiobjective genetic algorithm based on NSGA II for deriving final ranking from a medium-sized fuzzy outranking relation. , 2014, , . | | 4 |
| 59 | Sensing, Perceiving, and Understanding Actions. International Journal of Distributed Sensor Networks, 2014, 10, 790210. | 2.2 | Ο |
| 60 | Distributed architecture for efficient indoor localization and orientation. , 2013, , . | | 4 |
| 61 | Dynamic objects: Supporting fast and easy run-time reconfiguration in FPGAs. Journal of Systems Architecture, 2013, 59, 1-15. | 4.3 | 17 |
| 62 | Increasing adaptability of a speech into sign language translation system. Expert Systems With Applications, 2013, 40, 1312-1322. | 7.6 | 19 |
| 63 | UML/MARTE Methodology for Automatic SystemC Code Generation of Openmax Multimedia Applications. , 2013, , . | | 1 |
| 64 | Civitas: The Smart City Middleware, from Sensors to Big Data. , 2013, , . | | 29 |
| 65 | Development Flow for FPGA-Based Scalable Reconfigurable Systems. , 2013, , . | | Ο |
| 66 | A hierarchical scheduling and management solution for dynamic reconfiguration in FPGA-based embedded systems. , 2013, , . | | 1 |
| 67 | Architecture for Smart Highway Real Time Monitoring. , 2013, , . | | 3 |
| 68 | A Resource Manager for Dynamically Reconfigurable FPGA-Based Embedded Systems. , 2013, , . | | 5 |
| 69 | Efficient and decentralized data transfer architecture for component based embedded systems. , 2013, , | | 0 |
| 70 | A multi-objective extension of the net flow rule for exploiting a valued outranking relation. International Journal of Multicriteria Decision Making, 2013, 3, 36. | 0.2 | 6 |
| 71 | Wide-Input Intelligent Environments for Industrial Facilities. Lecture Notes in Computer Science, 2013, , 62-69. | 1.3 | 0 |
| 72 | Process-in-Network: A Comprehensive Network Processing Approach. Sensors, 2012, 12, 8112-8134. | 3.8 | 2 |

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| 73 | A Reasoning Hardware Platform for Real-Time Common-Sense Inference. Sensors, 2012, 12, 9210-9233. | 3.8 | 1 |
| 74 | Web-based platform for the Information and communications technology (ICT) research in engineering education. , 2012, , . | | 1 |
| 75 | A comprehensive integration infrastructure for embedded system design. Microprocessors and Microsystems, 2012, 36, 383-392. | 2.8 | 11 |
| 76 | Internet of Things Architecture for an RFID-Based Product Tracking Business Model. , 2012, , . | | 10 |
| 77 | A Rule-Based Approach to Automatic Service Composition. International Journal of Ambient Computing and Intelligence, 2012, 4, 16-28. | 1.1 | 3 |
| 78 | A System for Epileptic Seizure Focus Detection Based on EEG Analysis. Lecture Notes in Computer Science, 2012, , 407-414. | 1.3 | 0 |
| 79 | Sensor Network Integration by Means of a Virtual Private Network Protocol. Lecture Notes in Computer Science, 2012, , 85-92. | 1.3 | 1 |
| 80 | A dynamically reconfigurable architecture for smart grids. IEEE Transactions on Consumer Electronics, 2011, 57, 411-419. | 3.6 | 25 |
| 81 | A semantic model for actions and events in ambient intelligence. Engineering Applications of Artificial Intelligence, 2011, 24, 1432-1445. | 8.1 | 21 |
| 82 | Distributed Reconfigurable Hardware for Image Processing Acceleration. , 2011, , . | | 1 |
| 83 | Middleware-based management for smart grids. , 2011, , . | | 2 |
| 84 | Deployment-aware energy model for operator placement in sensor networks. , 2011, , . | | 1 |
| 85 | Process-in-Network for Image Providing Services. , 2011, , . | | 0 |
| 86 | Elcano: Multimodal indoor navigation infrastructure for disabled people. , 2011, , . | | 2 |
| 87 | Leveraging Common-Sense in Human Activity Recognition. , 2011, , . | | 0 |
| 88 | Sensitivity analysis applied to slope stabilization at failure. Computers and Geotechnics, 2010, 37, 837-845. | 4.7 | 12 |
| 89 | A qualitative agent-based approach to power quality monitoring and diagnosis. Integrated Computer-Aided Engineering, 2010, 17, 305-319. | 4.6 | 13 |
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| 91 | Openmax hardware native support for efficient multimedia embedded systems. IEEE Transactions on Consumer Electronics, 2010, 56, 1722-1729. | 3.6 | 1 |
| 92 | Persistence Management Model for Dynamically Reconfigurable Hardware. , 2010, , . | | 4 |
| 93 | How Intelligent Are Ambient Intelligence Systems?. International Journal of Ambient Computing and Intelligence, 2010, 2, 66-72. | 1.1 | 4 |
| 94 | Embedding standard distributed objectâ€oriented middlewares in wireless sensor networks. Wireless Communications and Mobile Computing, 2009, 9, 335-345. | 1.2 | 10 |
| 95 | A framework for advanced home service design and management. , 2009, , . | | 8 |
| 96 | Mechanisms of quality of service and mobility in 4G networks. , 2009, , . | | 1 |
| 97 | A framework for advanced home service design and management. IEEE Transactions on Consumer Electronics, 2009, 55, 1246-1253. | 3.6 | 12 |
| 98 | Transparent IP Cores Integration Based on the Distributed Object Paradigm. Lecture Notes in Electrical Engineering, 2009, , 131-144. | 0.4 | 9 |
| 99 | Web Services for Deeply Embedded Extra Low-Cost Devices. Lecture Notes in Computer Science, 2009, , 400-409. | 1.3 | 2 |
| 100 | Towards a Unified Middleware for Ubiquitous and Pervasive Computing. International Journal of Ambient Computing and Intelligence, 2009, 1, 53-63. | 1.1 | 5 |
| 101 | Transparent Dynamic Reconfiguration as a Service of a System-Level Middleware. Lecture Notes in Computer Science, 2009, , 281-286. | 1.3 | 3 |
| 102 | An agent-based approach towards automatic service composition in ambient intelligence. Artificial Intelligence Review, 2008, 29, 265-276. | 15.7 | 13 |
| 103 | Object oriented multi-layer router with application on wireless sensor-actuator networks. , 2008, , . | | 4 |
| 104 | Integration of Intelligent Agents Supporting Automatic Service Composition in Ambient Intelligence. , 2008, , . | | 7 |
| 105 | ASDF: an object oriented service discovery framework for wireless sensor networks. International Journal of Pervasive Computing and Communications, 2008, 4, 371-389. | 1.3 | 5 |
| 106 | Leightweight Middleware for Seamless HW-SW Interoperability, with Application to Wireless Sensor Networks. , 2007, , . | | 4 |
| 107 | Dynamic Reconfiguration Management Based on a Distributed Object Model. , 2007, , . | | 3 |
| 108 | System-Level Middleware for Embedded Hardware and Software Communication. , 2007, , . | | 1 |

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| 109 | Unified Inter-Communication Architecture for Systems-on-Chip. Proceedings of the International Workshop on Rapid System Prototyping, 2007, , . | 0.0 | 8 |
| 110 | OOCE: Object-Oriented Communication Engine for SoC Design. , 2007, , . | | 14 |
| 111 | Embedding a Middleware for Networked Hardware and Software Objects. Lecture Notes in Computer Science, 2006, , 567-576. | 1.3 | 4 |
| 112 | On the hardware-software partitioning problem. ACM Transactions on Design Automation of Electronic Systems, 2003, 8, 269-297. | 2.6 | 103 |
| 113 | Evaluation of design space exploration strategies. , 1999, , . | | 6 |
| 114 | Heterogeneous systems design: a UML-based approach. , 1999, , . | | 2 |
| 115 | A methodology for task based partitioning and scheduling of dynamically reconfigurable systems. , 0, , \cdot | | 10 |
| 116 | A knowledge-based system for hardware-software partitioning. , 0, , . | | 5 |
| 117 | The design space layer: supporting early design space exploration for core-based designs. , 0, , . | | 1 |
| 118 | Influence of manufacturing variations in I/sub DDQ/ measurements: a new test criterion. , 0, , . | | 0 |
| 119 | Constraint-driven system partitioning. , 0, , . | | 4 |
| 120 | A flexible approach to the design of complex embedded systems. , 0, , . | | 0 |
| 121 | A hardware-software operating system for heterogeneous designs. , 0, , . | | Ο |
| 122 | Mobile Ad-hoc Networks for Large In-Building Environments. , 0, , . | | 0 |
| 123 | Model Reuse through Hardware Design Patterns. , 0, , . | | 11 |
| 124 | How Intelligent are Ambient Intelligence Systems?. , 0, , 65-70. | | 0 |

How Intelligent are Ambient Intelligence Systems?., 0,, 65-70. 124