# Borja Bordel Snchez

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 85 papers | 551 citations | 11 h-index | 19 g-index |
| 105 ext. papers | 663 ext. citations | 1.9 avg, IF | 4.66 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 85 | Distributed Trust and Reputation Services in Pervasive Internet-of-Things Deployments. *Communications in Computer and Information Science*, **2022**, 16-29 | 0.3 | |
| 84 | Improving Road Surface Area Extraction via Semantic Segmentation with Conditional Generative Learning for Deep Inpainting Operations. *ISPRS International Journal of Geo-Information*, **2022**, 11, 43 | 2.9 | 2 |
| 83 | Increasing the Efficiency and Workers Wellbeing in the European Bakery Industry: An Industry 4.0 Case Study. *Lecture Notes in Networks and Systems*, **2022**, 646-658 | 0.5 | |
| 82 | Lightweight encryption for short-range wireless biometric authentication systems in Industry 4.0. *Integrated Computer-Aided Engineering*, **2022**, 29, 153-173 | 5.2 | 2 |
| 81 | An Optimization Algorithm for the Efficient Distribution of Resources in 6G Verticals. *Lecture Notes in Networks and Systems*, **2022**, 103-114 | 0.5 | |
| 80 | Prediction-Correction Techniques to Support Sensor Interoperability in Industry 4.0 Systems. *Sensors*, **2021**, 21, | 3.8 | 2 |
| 79 | Digital user-industry interactions and Industry 4.0 services to improve customers experience and satisfaction in the European bakery sector **2021**, | | 1 |
| 78 | Denial of Chain: Evaluation and prediction of a novel cyberattack in Blockchain-supported systems. *Future Generation Computer Systems*, **2021**, 116, 426-439 | 7.5 | 7 |
| 77 | Data Authentication and Anonymization in IoT Scenarios and Future 5G Networks Using Chaotic Digital Watermarking. *IEEE Access*, **2021**, 9, 22378-22398 | 3.5 | 11 |
| 76 | Controlling Supervised Industry 4.0 Processes through Logic Rules and Tensor Deformation Functions. *Informatica*, **2021**, 217-245 | 2.9 | 1 |
| 75 | Flexible Physical Process Control Through Predictor-Corrector Differential Models in Industry 4.0 Scenarios. *Advances in Intelligent Systems and Computing*, **2021**, 535-545 | 0.4 | |
| 74 | Evaluation and Modeling of Microprocessors Numerical Precision Impact on 5G Enhanced Mobile Broadband Communications. *Advances in Intelligent Systems and Computing*, **2021**, 267-279 | 0.4 | 3 |
| 73 | Recognizing human activities in Industry 4.0 scenarios through an analysis-modeling- recognition algorithm and context labels. *Integrated Computer-Aided Engineering*, **2021**, 1-21 | 5.2 | 0 |
| 72 | Generative Learning for Postprocessing Semantic Segmentation Predictions: A Lightweight Conditional Generative Adversarial Network Based on Pix2pix to Improve the Extraction of Road Surface Areas. *Land*, **2021**, 10, 79 | 3.5 | 7 |
| 71 | Trust-enhancing technologies: Blockchain mathematics in the context of Industry 4.0 **2021**, 1-22 | | 1 |
| 70 | A Predictor-Corrector Algorithm Based on Laurent Series for Biological Signals in the Internet of Medical Things. *IEEE Access*, **2020**, 8, 109360-109371 | 3.5 | 3 |
| 69 | Digital Watermarking for Enriched Video Streams in Edge Computing Architectures Using Chaotic Mixtures and Physical Unclonable Functions. *Communications in Computer and Information Science*, **2020**, 112-125 | 0.3 | |

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| 68 | Supervising Industrial Distributed Processes Through Soft Models, Deformation Metrics and Temporal Logic Rules. *Advances in Intelligent Systems and Computing*, **2020**, 125-136 | 0.4 | 2 |
| 67 | Managing Wireless Communications for Emergency Situations in Urban Environments through Cyber-Physical Systems and 5G Technologies. *Electronics (Switzerland)*, **2020**, 9, 1524 | 2.6 | 5 |
| 66 | Enabling trustworthy personal data protection in eHealth and well-being services through privacy-by-design. *International Journal of Distributed Sensor Networks*, **2020**, 16, 155014772091211 | 1.7 | 10 |
| 65 | Protecting Physical Communications in 5G C-RAN Architectures through Resonant Mechanisms in Optical Media. *Sensors*, **2020**, 20, | 3.8 | 4 |
| 64 | Towards Outlier Sensor Detection in Ambient Intelligent Platforms-A Low-Complexity Statistical Approach. *Sensors*, **2020**, 20, | 3.8 | 3 |
| 63 | An Inter-slice Management Solution for Future Virtualization-Based 5G Systems. *Advances in Intelligent Systems and Computing*, **2020**, 1059-1070 | 0.4 | 2 |
| 62 | Service management in virtualization-based architectures for 5G systems with network slicing. *Integrated Computer-Aided Engineering*, **2019**, 27, 77-99 | 5.2 | 8 |
| 61 | Protecting Private Communications in Cyber-Physical Systems through Physical Unclonable Functions. *Electronics (Switzerland)*, **2019**, 8, 390 | 2.6 | 10 |
| 60 | Enabling Efficient Communications with Resource Constrained Information Endpoints in Smart Homes. *Sensors*, **2019**, 19, | 3.8 | 4 |
| 59 | An agent-based method for trust graph calculation in resource constrained environments. *Integrated Computer-Aided Engineering*, **2019**, 27, 37-56 | 5.2 | 4 |
| 58 | New Teaching and Learning Methodologies in the Smart Higher Education Era, A Study Case, Wikipedia. *International Journal of Technology and Human Interaction*, **2019**, 15, 70-83 | 0.9 | 1 |
| 57 | A Blockchain-based Water Control System for the Automatic Management of Irrigation Communities **2019**, | | 8 |
| 56 | An Industry 4.0 Solution for the Detection of Dangerous Situations in Civil Work Scenarios. *Advances in Intelligent Systems and Computing*, **2019**, 494-504 | 0.4 | 1 |
| 55 | A Chaotic Cryptographic Solution for Low-Range Wireless Communications in Industry 4.0. *Advances in Intelligent Systems and Computing*, **2019**, 134-144 | 0.4 | 1 |
| 54 | A Two-Phase Algorithm for Recognizing Human Activities in the Context of Industry 4.0 and Human-Driven Processes. *Advances in Intelligent Systems and Computing*, **2019**, 175-185 | 0.4 | 2 |
| 53 | Sharing Device Resources in Heterogeneous CPS Using Unique Identifiers with Multi-site Systems Environments. *Advances in Intelligent Systems and Computing*, **2019**, 153-164 | 0.4 | |
| 52 | Cyber-Physical Systems for Environment and People Monitoring in Large Facilities: A Study Case in Public Health. *Advances in Intelligent Systems and Computing*, **2019**, 406-416 | 0.4 | 1 |
| 51 | Robust hardware-supported chaotic cryptosystems for streaming commutations among reduced computing power nodes. *Analog Integrated Circuits and Signal Processing*, **2019**, 98, 11-26 | 1.2 | 4 |

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| 50 | The educative model is changing: toward a student participative learning framework 3.0—Editing Wikipedia in the higher education. *Universal Access in the Information Society*, **2019**, 18, 689-701 | 2.5 | 4 |
| 49 | Cyber-Physical Sensors and Devices for the Provision of Next-Generation Personalized Services. *Advances in Intelligent Systems and Computing*, **2019**, 479-490 | 0.4 | 1 |
| 48 | Automatic Detection of Erratic Sensor Observations in Ami Platforms: A Statistical Approach — *Proceedings (mdpi)*, **2019**, 31, 55 | 0.3 | 2 |
| 47 | People-as-a-Service Dilemma: Humanizing Computing Solutions in High-Efficiency Applications. *Proceedings (mdpi)*, **2019**, 31, 39 | 0.3 | 4 |
| 46 | Digital Food Product Traceability: Using Blockchain in the International Commerce. *Advances in Intelligent Systems and Computing*, **2019**, 224-231 | 0.4 | 4 |
| 45 | Virtualization-Based Techniques for the Design, Management and Implementation of Future 5G Systems with Network Slicing. *Advances in Intelligent Systems and Computing*, **2018**, 133-143 | 0.4 | 5 |
| 44 | Analyzing UAV-Based Remote Sensing and WSN Support for Data Fusion. *Advances in Intelligent Systems and Computing*, **2018**, 756-766 | 0.4 | 7 |
| 43 | An Intra-Slice Security Solution for Emerging 5G Networks Based on Pseudo-Random Number Generators. *IEEE Access*, **2018**, 6, 16149-16164 | 3.5 | 18 |
| 42 | Provision of next-generation personalized cyber-physical services **2018**, | | 2 |
| 41 | Formative challenges in the current University teaching: The use of Wikis and Wikipedia **2018**, | | 1 |
| 40 | A Hardware-Supported Algorithm for Self-Managed and Choreographed Task Execution in Sensor Networks. *Sensors*, **2018**, 18, | 3.8 | 10 |
| 39 | A framework for enhancing mobile workflow execution through injection of flexible security controls. *Analog Integrated Circuits and Signal Processing*, **2018**, 96, 303-316 | 1.2 | |
| 38 | AmI environments simulations approach integrating social and network aspects: A case study. *Journal of Ambient Intelligence and Smart Environments*, **2018**, 10, 303-314 | 2.2 | 2 |
| 37 | Securing Internet-of-Things Systems Through Implicit and Explicit Reputation Models. *IEEE Access*, **2018**, 6, 47472-47488 | 3.5 | 10 |
| 36 | An Intra-slice Chaotic-Based Security Solution for Privacy Preservation in Future 5G Systems. *Advances in Intelligent Systems and Computing*, **2018**, 144-154 | 0.4 | 3 |
| 35 | . *IEEE Access*, **2018**, 6, 34896-34910 | 3.5 | 12 |
| 34 | Creating Predictive Models for Forecasting the Accident Rate in Mountain Roads Using VANETs. *Advances in Intelligent Systems and Computing*, **2018**, 319-329 | 0.4 | 1 |
| 33 | Flexible Service Provision in Context-Aware Cyber-Physical Systems. *Advances in Intelligent Systems and Computing*, **2018**, 873-883 | 0.4 | |

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| 32 | Low-Level Service Management in Cyber-Physical Systems. *Advances in Intelligent Systems and Computing*, **2018**, 860-872 | 0.4 | |
| 31 | Blockchain Technologies for Private Data Management in AmI Environments. *Proceedings (mdpi)*, **2018**, 2, 1230 | 0.3 | 1 |
| 30 | A Blockchain-Based Authorization System for Trustworthy Resource Monitoring and Trading in Smart Communities. *Sensors*, **2018**, 18, | 3.8 | 36 |
| 29 | Enhanced Peer Assessment in MOOC Evaluation Through Assignment and Review Analysis. *International Journal of Emerging Technologies in Learning*, **2018**, 13, 206 | 1.4 | 12 |
| 28 | Fast self-configuration in service-oriented Smart Environments for real-time applications. *Journal of Ambient Intelligence and Smart Environments*, **2018**, 10, 143-167 | 2.2 | 8 |
| 27 | Process execution in Cyber-Physical Systems using cloud and Cyber-Physical Internet services. *Journal of Supercomputing*, **2018**, 74, 4127-4169 | 2.5 | 20 |
| 26 | Improving Learning Tasks for Mentally Handicapped People Using AmI Environments Based on Cyber-Physical Systems. *Mobile Information Systems*, **2018**, 2018, 1-12 | 1.4 | 0 |
| 25 | A Robust Implementation of a Chaotic Cryptosystem for Streaming Communications in Wireless Sensor Networks. *Advances in Intelligent Systems and Computing*, **2017**, 95-104 | 0.4 | 2 |
| 24 | A service-oriented monitoring system based on rule evaluation for Home Automation **2017**, | | 4 |
| 23 | Process execution in humanized Cyber-physical systems: Soft processes **2017**, | | 5 |
| 22 | Using wikis in the higher education: The case of Wikipedia **2017**, | | 3 |
| 21 | Cyber□hysical systems: Extending pervasive sensing from control theory to the Internet of Things. *Pervasive and Mobile Computing*, **2017**, 40, 156-184 | 3.5 | 96 |
| 20 | Self-configuration in humanized Cyber-Physical Systems. *Journal of Ambient Intelligence and Humanized Computing*, **2017**, 8, 485-496 | 3.7 | 22 |
| 19 | Assessment of human motivation through analysis of physiological and emotional signals in Industry 4.0 scenarios. *Journal of Ambient Intelligence and Humanized Computing*, **2017**, 1 | 3.7 | 12 |
| 18 | Rule-based monitoring and coordination of resource consumption in smart communities. *IEEE Transactions on Consumer Electronics*, **2017**, 63, 191-199 | 4.8 | 6 |
| 17 | A Methodology for the Design of Application-Specific Cyber-Physical Social Sensing Co-Simulators. *Sensors*, **2017**, 17, | 3.8 | 12 |
| 16 | Towards a Wireless and Low-Power Infrastructure for Representing Information Based on E-Paper Displays. *Sustainability*, **2017**, 9, 76 | 3.6 | 2 |
| 15 | Improving the Complexity of the Lorenz Dynamics. *Complexity*, **2017**, 2017, 1-16 | 1.6 | 11 |

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| 14 | Detecting Malicious Components in Large-Scale Internet-of-Things Systems and Architectures. *Advances in Intelligent Systems and Computing*, **2017**, 155-165 | 0.4 | 5 |
| 13 | Improving MOOC Student Learning Through Enhanced Peer-to-Peer Tasks. *Lecture Notes in Computer Science*, **2017**, 140-149 | 0.9 | 2 |
| 12 | Prosumerization Approach to Semantic Ambient Intelligence Platforms. *Lecture Notes in Computer Science*, **2017**, 109-120 | 0.9 | 2 |
| 11 | Protecting Industry 4.0 Systems Against the Malicious Effects of Cyber-Physical Attacks. *Lecture Notes in Computer Science*, **2017**, 161-171 | 0.9 | 13 |
| 10 | Modeling and Simulation of Interactions Among People and Devices in Ambient Intelligence Environments **2016**, | | 2 |
| 9 | Improving Learning Tasks for Mentally Handicapped People Using AmI Environments Based on Cyber-Physical Systems. *Lecture Notes in Computer Science*, **2016**, 166-177 | 0.9 | 2 |
| 8 | Plug-and-Play Transducers in Cyber-Physical Systems for Device-Driven Applications **2016**, | | 8 |
| 7 | Physical Processes Control in Industry 4.0-Based Systems: A Focus on Cyber-Physical Systems. *Lecture Notes in Computer Science*, **2016**, 257-262 | 0.9 | 6 |
| 6 | Predictive algorithms for mobility and device lifecycle management in Cyber-Physical Systems. *Eurasip Journal on Wireless Communications and Networking*, **2016**, 2016, | 3.2 | 7 |
| 5 | An autonomous information device with e-paper display for personal environments **2016**, | | 4 |
| 4 | Using 5G Technologies in the Internet of Things Handovers, Problems and Challenges **2015**, | | 11 |
| 3 | TF4SM: A Framework for Developing Traceability Solutions in Small Manufacturing Companies. *Sensors*, **2015**, 15, 29478-510 | 3.8 | 30 |
| 2 | Building Smart Adaptable Cyber-Physical Systems: Definitions, Classification and Elements. *Lecture Notes in Computer Science*, **2015**, 144-149 | 0.9 | 2 |
| 1 | Trust Provision in the Internet of Things using Transversal Blockchain Networks. *Intelligent Automation and Soft Computing*,-1--1 | 2.6 | 7 |