Borja Bordel Snchez

List of Publications by Citations

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	Cyber-Physical systems: Extending pervasive sensing from control theory to the Internet of Things. *Pervasive and Mobile Computing*, **2017**, 40, 156-184	3.5	96
84	A Blockchain-Based Authorization System for Trustworthy Resource Monitoring and Trading in Smart Communities. *Sensors*, **2018**, 18,	3.8	36
83	TF4SM: A Framework for Developing Traceability Solutions in Small Manufacturing Companies. *Sensors*, **2015**, 15, 29478-510	3.8	30
82	Self-configuration in humanized Cyber-Physical Systems. *Journal of Ambient Intelligence and Humanized Computing*, **2017**, 8, 485-496	3.7	22
81	Process execution in Cyber-Physical Systems using cloud and Cyber-Physical Internet services. *Journal of Supercomputing*, **2018**, 74, 4127-4169	2.5	20
80	An Intra-Slice Security Solution for Emerging 5G Networks Based on Pseudo-Random Number Generators. *IEEE Access*, **2018**, 6, 16149-16164	3.5	18
79	Protecting Industry 4.0 Systems Against the Malicious Effects of Cyber-Physical Attacks. *Lecture Notes in Computer Science*, **2017**, 161-171	0.9	13
78	. *IEEE Access*, **2018**, 6, 34896-34910	3.5	12
77	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
76	A Methodology for the Design of Application-Specific Cyber-Physical Social Sensing Co-Simulators. *Sensors*, **2017**, 17,	3.8	12
75	Enhanced Peer Assessment in MOOC Evaluation Through Assignment and Review Analysis. *International Journal of Emerging Technologies in Learning*, **2018**, 13, 206	1.4	12
74	Using 5G Technologies in the Internet of Things Handovers, Problems and Challenges **2015**,		11
73	Improving the Complexity of the Lorenz Dynamics. *Complexity*, **2017**, 2017, 1-16	1.6	11
72	Data Authentication and Anonymization in IoT Scenarios and Future 5G Networks Using Chaotic Digital Watermarking. *IEEE Access*, **2021**, 9, 22378-22398	3.5	11
71	Protecting Private Communications in Cyber-Physical Systems through Physical Unclonable Functions. *Electronics (Switzerland)*, **2019**, 8, 390	2.6	10
70	A Hardware-Supported Algorithm for Self-Managed and Choreographed Task Execution in Sensor Networks. *Sensors*, **2018**, 18,	3.8	10
69	Securing Internet-of-Things Systems Through Implicit and Explicit Reputation Models. *IEEE Access*, **2018**, 6, 47472-47488	3.5	10

68	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
67	Service management in virtualization-based architectures for 5G systems with network slicing. *Integrated Computer-Aided Engineering*, **2019**, 27, 77-99	5.2	8
66	A Blockchain-based Water Control System for the Automatic Management of Irrigation Communities **2019**,		8
65	Plug-and-Play Transducers in Cyber-Physical Systems for Device-Driven Applications **2016**,		8
64	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
63	Analyzing UAV-Based Remote Sensing and WSN Support for Data Fusion. *Advances in Intelligent Systems and Computing*, **2018**, 756-766	0.4	7
62	Trust Provision in the Internet of Things using Transversal Blockchain Networks. *Intelligent Automation and Soft Computing*,-1--1	2.6	7
61	Predictive algorithms for mobility and device lifecycle management in Cyber-Physical Systems. *Eurasip Journal on Wireless Communications and Networking*, **2016**, 2016,	3.2	7
60	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
59	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
58	Rule-based monitoring and coordination of resource consumption in smart communities. *IEEE Transactions on Consumer Electronics*, **2017**, 63, 191-199	4.8	6
57	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
56	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
55	Process execution in humanized Cyber-physical systems: Soft processes **2017**,		5
54	Detecting Malicious Components in Large-Scale Internet-of-Things Systems and Architectures. *Advances in Intelligent Systems and Computing*, **2017**, 155-165	0.4	5
53	Managing Wireless Communications for Emergency Situations in Urban Environments through Cyber-Physical Systems and 5G Technologies. *Electronics (Switzerland)*, **2020**, 9, 1524	2.6	5
52	A service-oriented monitoring system based on rule evaluation for Home Automation **2017**,		4
51	Enabling Efficient Communications with Resource Constrained Information Endpoints in Smart Homes. *Sensors*, **2019**, 19,	3.8	4

50	An agent-based method for trust graph calculation in resource constrained environments. *Integrated Computer-Aided Engineering*, **2019**, 27, 37-56	5.2	4
49	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
48	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
47	Protecting Physical Communications in 5G C-RAN Architectures through Resonant Mechanisms in Optical Media. *Sensors*, **2020**, 20,	3.8	4
46	An autonomous information device with e-paper display for personal environments **2016**,		4
45	People-as-a-Service Dilemma: Humanizing Computing Solutions in High-Efficiency Applications. *Proceedings (mdpi)*, **2019**, 31, 39	0.3	4
44	Digital Food Product Traceability: Using Blockchain in the International Commerce. *Advances in Intelligent Systems and Computing*, **2019**, 224-231	0.4	4
43	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
42	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
41	Using wikis in the higher education: The case of Wikipedia **2017**,		3
40	Towards Outlier Sensor Detection in Ambient Intelligent Platforms-A Low-Complexity Statistical Approach. *Sensors*, **2020**, 20,	3.8	3
39	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
38	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
37	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
36	Modeling and Simulation of Interactions Among People and Devices in Ambient Intelligence Environments **2016**,		2
35	Provision of next-generation personalized cyber-physical services **2018**,		2
34	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
33	Towards a Wireless and Low-Power Infrastructure for Representing Information Based on E-Paper Displays. *Sustainability*, **2017**, 9, 76	3.6	2

32	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
31	Prediction-Correction Techniques to Support Sensor Interoperability in Industry 4.0 Systems. *Sensors*, **2021**, 21,	3.8	2
30	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
29	Building Smart Adaptable Cyber-Physical Systems: Definitions, Classification and Elements. *Lecture Notes in Computer Science*, **2015**, 144-149	0.9	2
28	Improving MOOC Student Learning Through Enhanced Peer-to-Peer Tasks. *Lecture Notes in Computer Science*, **2017**, 140-149	0.9	2
27	Prosumerization Approach to Semantic Ambient Intelligence Platforms. *Lecture Notes in Computer Science*, **2017**, 109-120	0.9	2
26	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
25	Automatic Detection of Erratic Sensor Observations in Ami Platforms: A Statistical Approach *Proceedings (mdpi)*, **2019**, 31, 55	0.3	2
24	An Inter-slice Management Solution for Future Virtualization-Based 5G Systems. *Advances in Intelligent Systems and Computing*, **2020**, 1059-1070	0.4	2
23	Lightweight encryption for short-range wireless biometric authentication systems in Industry 4.0. *Integrated Computer-Aided Engineering*, **2022**, 29, 153-173	5.2	2
22	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
21	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
20	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
19	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
18	Formative challenges in the current University teaching: The use of Wikis and Wikipedia **2018**,		1
17	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
16	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
15	Digital user-industry interactions and Industry 4.0 services to improve customers experience and satisfaction in the European bakery sector **2021**,		1

14	Controlling Supervised Industry 4.0 Processes through Logic Rules and Tensor Deformation Functions. *Informatica*, **2021**, 217-245	2.9	1
13	Blockchain Technologies for Private Data Management in AmI Environments. *Proceedings (mdpi)*, **2018**, 2, 1230	0.3	1
12	Trust-enhancing technologies: Blockchain mathematics in the context of Industry 4.0 **2021**, 1-22		1
11	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
10	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
9	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	
8	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	
7	Distributed Trust and Reputation Services in Pervasive Internet-of-Things Deployments. *Communications in Computer and Information Science*, **2022**, 16-29	0.3	
6	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	
5	Flexible Service Provision in Context-Aware Cyber-Physical Systems. *Advances in Intelligent Systems and Computing*, **2018**, 873-883	0.4	
4	Low-Level Service Management in Cyber-Physical Systems. *Advances in Intelligent Systems and Computing*, **2018**, 860-872	0.4	
3	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	
2	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	
1	An Optimization Algorithm for the Efficient Distribution of Resources in 6G Verticals. *Lecture Notes in Networks and Systems*, **2022**, 103-114	0.5	