

Jos Barbosa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

865

citations

13

h-index

27

g-index

80

ext. papers

1,059

ext. citations

1.9

avg, IF

4.41

L-index

#	Paper	IF	Citations
69	Recommendation of Best Practices for Industrial Agent Systems based on the IEEE 2660.1 Standard 2021,		3
68	Agent-based Distributed Data Analysis in Industrial Cyber-Physical Systems. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6	1
67	An Agent-Based Industrial Cyber-Physical System Deployed in an Automobile Multi-stage Production System. <i>Studies in Computational Intelligence</i> , 2020 , 379-391	0.8	2
66	Hybrid System for Simultaneous Job Shop Scheduling and Layout Optimization Based on Multi-agents and Genetic Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 387-397	0.4	3
65	Empowering Humans in a Cyber-Physical Production System: Human-in-the-loop Perspective 2019,		4
64	Using Internet of Things Technologies for an Efficient Data Collection in Maintenance 4.0 2019,		2
63	Development of Ergonomic User Interfaces for the Human Integration in Cyber-Physical Systems 2019,		1
62	Modular and Self-organized Conveyor System Using Multi-agent Systems. <i>Lecture Notes in Computer Science</i> , 2019 , 259-263	0.9	2
61	Distributing Intelligence among Cloud, Fog and Edge in Industrial Cyber-physical Systems 2019,		8
60	Agent-Based Approach for Decentralized Data Analysis in Industrial Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2019 , 130-144	0.9	2
59	PERFoRM System Architecture 2019 , 67-86		
58	Applying a Method for Measuring the Performance of University-Industry R&D Collaborations: Case Study Analysis. <i>Procedia Computer Science</i> , 2019 , 164, 424-432	1.6	6
57	Integration Challenges for the Deployment of a Multi-Stage Zero-Defect Manufacturing Architecture 2019,		6
56	Digital Twin in Industry 4.0: Technologies, Applications and Challenges 2019,		32
55	Symbiotic Integration of Human Activities in Cyber-Physical Systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 133-138		4
54	Multi-agent System Architecture for Zero Defect Multi-stage Manufacturing. <i>Studies in Computational Intelligence</i> , 2018 , 13-26	0.8	6
53	Petri nets methodology for the design and control of migration processes towards industry 4.0 2018,		1

52	Quo Vadis Industry 4.0: An Overview Based on Scientific Publications Analytics 2018 ,		4
51	Empowering a Cyber-Physical System for a Modular Conveyor System with Self-organization. <i>Studies in Computational Intelligence</i> , 2018 , 157-170	0.8	7
50	Integration Patterns for Interfacing Software Agents with Industrial Automation Systems 2018 ,		12
49	Improvement of Multistage Quality Control through the Integration of Decision Modeling and Cyber-Physical Production Systems 2018 ,		3
48	Maintenance 4.0: Intelligent and Predictive Maintenance System Architecture 2018 ,		47
47	Reference Architecture for a Collaborative Predictive Platform for Smart Maintenance in Manufacturing 2018 ,		8
46	Performance Assessment Of The Integration Between Industrial Agents And Low-Level Automation Functions 2018 ,		5
45	Implementation of a Multi-Agent System to Support ZDM Strategies in Multi-Stage Environments 2018 ,		10
44	Data scientist under the Da.Re perspective: analysis of training offers, skills and challenges 2018 ,		2
43	Scheduling of Home Health Care Services Based on Multi-agent Systems. <i>Communications in Computer and Information Science</i> , 2018 , 12-23	0.3	4
42	Integration and Deployment of a Distributed and Pluggable Industrial Architecture for the PERFoRM Project. <i>Procedia Manufacturing</i> , 2017 , 11, 896-904	1.5	8
41	Common practices for integrating industrial agents and low level automation functions 2017 ,		17
40	Dynamic monitoring of key-performance indicators in industrial environments 2017 ,		2
39	Petri nets approach for designing the migration process towards industrial cyber-physical production systems 2017 ,		4
38	Agent-based modeling and simulation of a small scale cyber-physical system using NetLogo 2017 ,		1
37	Development of a smart electric motor testbed for Internet of Things and big data technologies 2017 ,		5
36	Agent-based reconfiguration in a micro-flow production cell 2017 ,		4
35	Migration from traditional towards cyber-physical production systems 2017 ,		13

34	Instantiating the PERFoRM System Architecture for Industrial Case Studies. <i>Studies in Computational Intelligence</i> , 2017 , 359-372	0.8	3
33	Building a Robotic Cyber-Physical Production Component. <i>Studies in Computational Intelligence</i> , 2016 , 295-305	0.8	3
32	Cross benefits from cyber-physical systems and intelligent products for future smart industries 2016 ,		18
31	Dynamic Switching Mechanism to Support Self-organization in ADACOR Holonic Control System. <i>IFAC-PapersOnLine</i> , 2016 , 49, 161-166	0.7	2
30	Selection of a data exchange format for industry 4.0 manufacturing systems 2016 ,		9
29	Specification of the PERFoRM architecture for the seamless production system reconfiguration 2016 ,		17
28	Exploring the integration of the human as a flexibility factor in CPS enabled manufacturing environments: Methodology and results 2016 ,		38
27	Intelligent products: The grace experience. <i>Control Engineering Practice</i> , 2015 , 42, 95-105	3.9	56
26	Genetic algorithm for flexible job shop scheduling problem - A case study 2015 ,		1
25	Improving the ADACOR2 supervisor holon scheduling mechanism with genetic algorithms 2015 ,		2
24	Standardization in cyber-physical systems: The ARUM case 2015 ,		21
23	Dynamic self-organization in holonic multi-agent manufacturing systems: The ADACOR evolution. <i>Computers in Industry</i> , 2015 , 66, 99-111	11.6	153
22	What-if game simulation in agent-based strategic production planners 2015 ,		2
21	Deployment of industrial agents in heterogeneous automation environments 2015 ,		5
20	Integration of an agent-based strategic planner in an enterprise service bus ecosystem 2015 ,		4
19	Adaptive Production Management Using a Service-Based Platform. <i>Lecture Notes in Computer Science</i> , 2015 , 133-144	0.9	
18	Behavioural Validation of the ADACOR2 Self-organized Holonic Multi-agent Manufacturing System. <i>Lecture Notes in Computer Science</i> , 2015 , 59-70	0.9	2
17	Adaptive scheduling based on self-organized holonic swarm of schedulers 2014 ,		8

16	Benchmarking flexible job-shop scheduling and control systems. <i>Control Engineering Practice</i> , 2013 , 21, 1204-1225	3.9	74
15	Self-Organized Holonic Multi-agent Manufacturing System: The Behavioural Perspective 2013 ,		4
14	Multi-agent System Approach for the Strategic Planning in Ramp-Up Production of Small Lots 2013 ,		19
13	Trust and risk management towards resilient large-scale Cyber-Physical Systems 2013 ,		5
12	Sensibility study in a flexible job shop scheduling problem 2013 ,		1
11	Structural Self-organized Holonic Multi-Agent Manufacturing Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 59-70	0.9	9
10	Bio-inspired multi-agent systems for reconfigurable manufacturing systems. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 934-944	7.2	104
9	Nervousness in Dynamic Self-organized Holonic Multi-agent Systems. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 9-17		13
8	Self-organized Holonic Manufacturing Systems Combining Adaptation and Performance Optimization. <i>International Federation for Information Processing</i> , 2012 , 163-170		4
7	Simulation of multi-agent manufacturing systems using Agent-Based Modelling platforms 2011 ,		23
6	Enhancing ADACOR with biology insights towards reconfigurable manufacturing systems 2011 ,		4
5	Combining adaptation and optimization in bio-inspired multi-agent manufacturing systems 2011 ,		3
4	Modelling and simulating self-organizing agent-based manufacturing systems 2010 ,		11
3	Biological Inspiration to Solve Complexity in Intelligent and Adaptive Manufacturing Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 204-209		
2	A Low Cost Induction Motor Controller for Light Electric Vehicles in Local Areas 2005 ,		4
1	Disturbance Detection, Recover and Prediction in Holonic Manufacturing Control		1