

# Jos Barbosa

## List of Publications by Citations

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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	Dynamic self-organization in holonic multi-agent manufacturing systems: The ADACOR evolution. <i>Computers in Industry</i> , <b>2015</b> , 66, 99-111	11.6	153
68	Bio-inspired multi-agent systems for reconfigurable manufacturing systems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2012</b> , 25, 934-944	7.2	104
67	Benchmarking flexible job-shop scheduling and control systems. <i>Control Engineering Practice</i> , <b>2013</b> , 21, 1204-1225	3.9	74
66	Intelligent products: The grace experience. <i>Control Engineering Practice</i> , <b>2015</b> , 42, 95-105	3.9	56
65	Maintenance 4.0: Intelligent and Predictive Maintenance System Architecture <b>2018</b> ,		47
64	Exploring the integration of the human as a flexibility factor in CPS enabled manufacturing environments: Methodology and results <b>2016</b> ,		38
63	Digital Twin in Industry 4.0: Technologies, Applications and Challenges <b>2019</b> ,		32
62	Simulation of multi-agent manufacturing systems using Agent-Based Modelling platforms <b>2011</b> ,		23
61	Standardization in cyber-physical systems: The ARUM case <b>2015</b> ,		21
60	Multi-agent System Approach for the Strategic Planning in Ramp-Up Production of Small Lots <b>2013</b> ,		19
59	Cross benefits from cyber-physical systems and intelligent products for future smart industries <b>2016</b> ,		18
58	Common practices for integrating industrial agents and low level automation functions <b>2017</b> ,		17
57	Specification of the PERFoRM architecture for the seamless production system reconfiguration <b>2016</b> ,		17
56	Migration from traditional towards cyber-physical production systems <b>2017</b> ,		13
55	Nervousness in Dynamic Self-organized Holonic Multi-agent Systems. <i>Advances in Intelligent and Soft Computing</i> , <b>2012</b> , 9-17		13
54	Integration Patterns for Interfacing Software Agents with Industrial Automation Systems <b>2018</b> ,		12
53	Modelling and simulating self-organizing agent-based manufacturing systems <b>2010</b> ,		11

52	Implementation of a Multi-Agent System to Support ZDM Strategies in Multi-Stage Environments <b>2018,</b>		10
51	Structural Self-organized Holonic Multi-Agent Manufacturing Systems. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 59-70	0.9	9
50	Selection of a data exchange format for industry 4.0 manufacturing systems <b>2016,</b>		9
49	Integration and Deployment of a Distributed and Pluggable Industrial Architecture for the PERFoRM Project. <i>Procedia Manufacturing</i> , <b>2017</b> , 11, 896-904	1.5	8
48	Adaptive scheduling based on self-organized holonic swarm of schedulers <b>2014,</b>		8
47	Distributing Intelligence among Cloud, Fog and Edge in Industrial Cyber-physical Systems <b>2019,</b>		8
46	Reference Architecture for a Collaborative Predictive Platform for Smart Maintenance in Manufacturing <b>2018,</b>		8
45	Empowering a Cyber-Physical System for a Modular Conveyor System with Self-organization. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 157-170	0.8	7
44	Multi-agent System Architecture for Zero Defect Multi-stage Manufacturing. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 13-26	0.8	6
43	Applying a Method for Measuring the Performance of University-Industry R&D Collaborations: Case Study Analysis. <i>Procedia Computer Science</i> , <b>2019</b> , 164, 424-432	1.6	6
42	Integration Challenges for the Deployment of a Multi-Stage Zero-Defect Manufacturing Architecture <b>2019,</b>		6
41	Development of a smart electric motor testbed for Internet of Things and big data technologies <b>2017,</b>		5
40	Deployment of industrial agents in heterogeneous automation environments <b>2015,</b>		5
39	Trust and risk management towards resilient large-scale Cyber-Physical Systems <b>2013,</b>		5
38	Performance Assessment Of The Integration Between Industrial Agents And Low-Level Automation Functions <b>2018,</b>		5
37	Empowering Humans in a Cyber-Physical Production System: Human-in-the-loop Perspective <b>2019,</b>		4
36	Quo Vadis Industry 4.0: An Overview Based on Scientific Publications Analytics <b>2018,</b>		4
35	Petri nets approach for designing the migration process towards industrial cyber-physical production systems <b>2017,</b>		4

34	Agent-based reconfiguration in a micro-flow production cell <b>2017</b> ,		4
33	Integration of an agent-based strategic planner in an enterprise service bus ecosystem <b>2015</b> ,		4
32	Self-Organized Holonic Multi-agent Manufacturing System: The Behavioural Perspective <b>2013</b> ,		4
31	Enhancing ADACOR with biology insights towards reconfigurable manufacturing systems <b>2011</b> ,		4
30	A Low Cost Induction Motor Controller for Light Electric Vehicles in Local Areas <b>2005</b> ,		4
29	Self-organized Holonic Manufacturing Systems Combining Adaptation and Performance Optimization. <i>International Federation for Information Processing</i> , <b>2012</b> , 163-170		4
28	Symbiotic Integration of Human Activities in Cyber-Physical Systems. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 133-138		4
27	Scheduling of Home Health Care Services Based on Multi-agent Systems. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 12-23	0.3	4
26	Building a Robotic Cyber-Physical Production Component. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 295-305	0.8	3
25	Combining adaptation and optimization in bio-inspired multi-agent manufacturing systems <b>2011</b> ,		3
24	Instantiating the PERFoRM System Architecture for Industrial Case Studies. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 359-372	0.8	3
23	Recommendation of Best Practices for Industrial Agent Systems based on the IEEE 2660.1 Standard <b>2021</b> ,		3
22	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> , <b>2020</b> , 387-397	0.4	3
21	Improvement of Multistage Quality Control through the Integration of Decision Modeling and Cyber-Physical Production Systems <b>2018</b> ,		3
20	Using Internet of Things Technologies for an Efficient Data Collection in Maintenance 4.0 <b>2019</b> ,		2
19	Improving the ADACOR2 supervisor holon scheduling mechanism with genetic algorithms <b>2015</b> ,		2
18	Modular and Self-organized Conveyor System Using Multi-agent Systems. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 259-263	0.9	2
17	Dynamic monitoring of key-performance indicators in industrial environments <b>2017</b> ,		2

16	What-if game simulation in agent-based strategic production planners <b>2015</b> ,		2
15	Agent-Based Approach for Decentralized Data Analysis in Industrial Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 130-144	0.9	2
14	An Agent-Based Industrial Cyber-Physical System Deployed in an Automobile Multi-stage Production System. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 379-391	0.8	2
13	Behavioural Validation of the ADACOR2 Self-organized Holonic Multi-agent Manufacturing System. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 59-70	0.9	2
12	Dynamic Switching Mechanism to Support Self-organization in ADACOR Holonic Control System. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 161-166	0.7	2
11	Data scientist under the Da.Re perspective: analysis of training offers, skills and challenges <b>2018</b> ,		2
10	Genetic algorithm for flexible job shop scheduling problem - A case study <b>2015</b> ,		1
9	Petri nets methodology for the design and control of migration processes towards industry 4.0 <b>2018</b> ,		1
8	Development of Ergonomic User Interfaces for the Human Integration in Cyber-Physical Systems <b>2019</b> ,		1
7	Agent-based modeling and simulation of a small scale cyber-physical system using NetLogo <b>2017</b> ,		1
6	Sensibility study in a flexible job shop scheduling problem <b>2013</b> ,		1
5	Disturbance Detection, Recover and Prediction in Holonic Manufacturing Control		1
4	Agent-based Distributed Data Analysis in Industrial Cyber-Physical Systems. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , <b>2021</b> , 1-1	2.6	1
3	Biological Inspiration to Solve Complexity in Intelligent and Adaptive Manufacturing Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 204-209		
2	PERFoRM System Architecture <b>2019</b> , 67-86		
1	Adaptive Production Management Using a Service-Based Platform. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 133-144	0.9	