Armando Walter Colombo

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.

60 papers

1,564 citations

21 h-index

38 g-index

64 ext. papers

1,891 ext. citations

avg, IF

5.15 L-index

#	Paper	IF	Citations
60	Industrial automation based on cyber-physical systems technologies: Prototype implementations and challenges. <i>Computers in Industry</i> , 2016 , 81, 11-25	11.6	379
59	An agent-based intelligent control platform for industrial holonic manufacturing systems. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 322-337	8.9	102
58	Service-Oriented Infrastructure to Support the Deployment of Evolvable Production Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2011 , 7, 759-767	11.9	99
57	Interoperability for Industrial Cyber-Physical Systems: An Approach for Legacy Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 3370-3378	11.9	84
56	Architecting the next generation of service-based SCADA/DCS system of systems 2011,		69
55	A SOA-based architecture for empowering future collaborative cloud-based industrial automation 2012 ,		62
54	SOA in reconfigurable supply chains: A research roadmap. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 939-949	7.2	57
53	Industrial Artificial Intelligence in Industry 4.0 - Systematic Review, Challenges and Outlook. <i>IEEE Access</i> , 2020 , 8, 220121-220139	3.5	55
52	Towards an architecture for service-oriented process monitoring and control 2010,		48
51	A service- and multi-agent-oriented manufacturing automation architecture. <i>Computers in Industry</i> , 2012 , 63, 813-823	11.6	37
50	Big Data Analysis in Smart Manufacturing: A Review. <i>International Journal of Communications, Network and System Sciences</i> , 2017 , 10, 31-58	0.2	32
49	Towards the energy efficient future factory 2009 ,		30
48	Specification, design, and implementation of logic controllers based on colored Petri net models and the standard IEC 1131. I. Specification and design. <i>IEEE Transactions on Control Systems Technology</i> , 1999 , 7, 657-665	4.8	29
47	. IEEE Industrial Electronics Magazine, 2020 , 14, 18-32	6.2	29
46	Supporting agile supply chains using a service-oriented shop floor. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 950-960	7.2	28
45	Engineering framework for agent-based manufacturing control. <i>Engineering Applications of Artificial Intelligence</i> , 2006 , 19, 625-640	7.2	26
44	IMC-AESOP outcomes: Paving the way to collaborative manufacturing systems 2014 ,		25

43	2016,		23	
42	A Survey on Edge and Edge-Cloud Computing Assisted Cyber-Physical Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 7806-7819	11.9	22	
41	Integration of virtual and real environments for engineering service-oriented manufacturing systems. <i>Journal of Intelligent Manufacturing</i> , 2012 , 23, 2551-2563	6.7	21	
40	High-level Petri nets for the process description and control in service-oriented manufacturing systems. <i>International Journal of Production Research</i> , 2012 , 50, 1650-1665	7.8	21	
39	Using an interdisciplinary demonstration platform for teaching Industry 4.0. <i>Procedia Manufacturing</i> , 2019 , 31, 302-308	1.5	20	
38	Industrial Agents in the Era of Service-Oriented Architectures and Cloud-Based Industrial Infrastructures 2015 , 67-87		20	
37	Design and simulation of a SOA-based system of systems for automation in the residential sector 2013 ,		19	
36	An approach for integrating real and virtual production automation devices applying the service-oriented architecture paradigm 2007 ,		17	
35	A generic communication interface for DPWS-based web services 2008,		16	
34	Diagnosis using Service Oriented Architectures (SOA) 2007,		16	
33	A temporised Petri net approach for design, modelling and analysis of flexible production systems. <i>International Journal of Advanced Manufacturing Technology</i> , 1997 , 13, 214-226	3.2	14	
32	Impact of new ICT trends for the educational curriculum in the area of Industrial Automation and engineering 2015 ,		13	
31	Specification, design, and implementation of logic controllers based on colored Petri net models and the standard IEC 1131. II. Design and implementation. <i>IEEE Transactions on Control Systems Technology</i> , 1999 , 7, 666-674	4.8	13	
30	MAS and SOA: A Case Study Exploring Principles and Technologies to Support Self-Properties in Assembly Systems 2008 ,		12	
29	Quo Vadis Industry 4.0? Position, Trends, and Challenges. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 298-310	3.6	11	
28	Concept and case study for teaching and learning industrial digitalization. <i>Procedia Manufacturing</i> , 2019 , 31, 97-102	1.5	10	
27	Engineering of Next Generation Cyber-Physical Automation System Architectures 2017 , 185-206		9	
26	COLLABORATIVE AUTOMATION FROM RIGID COUPLING TOWARDS DYNAMIC RECONFIGURABLE PRODUCTION SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 184-192		9	

25	Monitoring of flexible production systems using high-level Petri net specifications. <i>Control Engineering Practice</i> , 1999 , 7, 1449-1466	3.9	9
24	A 70-Year Industrial Electronics Society Evolution Through Industrial Revolutions: The Rise and Flourishing of Information and Communication Technologies. <i>IEEE Industrial Electronics Magazine</i> , 2021 , 15, 115-126	6.2	9
23	Assessment of industrial middleware technologies for the PERFoRM project 2016,		9
22	2014,		6
21	A formal engineering approach for control and monitoring systems in a service-oriented environment 2013 ,		5
20	An engineering approach for industrial SoA-based systems of systems 2013,		5
19	Learning Industrial Cyber-Physical Systems and Industry 4.0-Compliant Solutions 2020,		5
18	Collaborative (Agent- Based) Factory Automation. <i>Industrial Electronics Series</i> , 2004 , 1725-1745		5
17	A DIN Spec 91345 RAMI 4.0 Compliant Data Pipelining Model: An Approach to Support Data Understanding and Data Acquisition in Smart Manufacturing Environments. <i>IEEE Access</i> , 2020 , 8, 2231	14 ³ 2 ⁵ 23	129
16	. IEEE Transactions on Industrial Informatics, 2021 , 17, 7802-7805	11.9	5
16 15	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 7802-7805 Configuration of SoA-based devices in virtual production cells. <i>International Journal of Production Research</i> , 2011 , 49, 7397-7423	11.9 7.8	3
	Configuration of SoA-based devices in virtual production cells. <i>International Journal of Production</i>		Ĭ
15	Configuration of SoA-based devices in virtual production cells. <i>International Journal of Production Research</i> , 2011 , 49, 7397-7423		3
15 14	Configuration of SoA-based devices in virtual production cells. <i>International Journal of Production Research</i> , 2011 , 49, 7397-7423 Agent-based Control for Desktop Assembly Factories 2009 , 265-291 A Service-Oriented Architecture Implementation in the Digital Factory of the University. <i>Lecture</i>	7.8	3
15 14 13	Configuration of SoA-based devices in virtual production cells. <i>International Journal of Production Research</i> , 2011 , 49, 7397-7423 Agent-based Control for Desktop Assembly Factories 2009 , 265-291 A Service-Oriented Architecture Implementation in the Digital Factory of the University. <i>Lecture Notes in Computer Science</i> , 2015 , 73-83 Developing Interfaces Based on Services to the Cloud Manufacturing: Plug and Produce. <i>Lecture</i>	7.8	3 3
15 14 13	Configuration of SoA-based devices in virtual production cells. <i>International Journal of Production Research</i> , 2011 , 49, 7397-7423 Agent-based Control for Desktop Assembly Factories 2009 , 265-291 A Service-Oriented Architecture Implementation in the Digital Factory of the University. <i>Lecture Notes in Computer Science</i> , 2015 , 73-83 Developing Interfaces Based on Services to the Cloud Manufacturing: Plug and Produce. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 821-831 Engineering human-focused Industrial Cyber-Physical Systems in Industry 4.0 context. <i>Philosophical</i>	0.9	3 3 3
15 14 13 12	Configuration of SoA-based devices in virtual production cells. <i>International Journal of Production Research</i> , 2011 , 49, 7397-7423 Agent-based Control for Desktop Assembly Factories 2009 , 265-291 A Service-Oriented Architecture Implementation in the Digital Factory of the University. <i>Lecture Notes in Computer Science</i> , 2015 , 73-83 Developing Interfaces Based on Services to the Cloud Manufacturing: Plug and Produce. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 821-831 Engineering human-focused Industrial Cyber-Physical Systems in Industry 4.0 context. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200366 Using a semi-automated job-shop production system model to prepare students for the challenges	7.8 0.9 0.2	3 3 3 3

LIST OF PUBLICATIONS

7	An Approach for Implementing ISA 95-Compliant Big Data Observation, Analysis and Diagnosis Features in Industry 4.0 Vision Following Manufacturing Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2016 , 116-123	0.5	1
6	SoA-based production monitoring systems for energy efficiency: A case-study using Ford's POSMon system 2010 ,		1
5	Screening Process Mining and Value Stream Techniques on Industrial Manufacturing Processes: Process Modelling and Bottleneck Analysis. <i>IEEE Access</i> , 2022 , 10, 24203-24214	3.5	1
4	Improving Energy Efficiency in the Production Floor Using SoA-Based Monitoring Techniques. <i>IFIP Advances in Information and Communication Technology</i> , 2010 , 159-166	0.5	
3	A Service Enabled Approach to Automation Management. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1620-1624		
2	Guest Editorial Industrial Agents: Concepts, Technologies, and Applications. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2022 , 3, 2-4	2.6	
1	Forschung und Lehre im Bereich industrielle Fertigung. <i>Informatik Aktuell</i> , 2012 , 59-68	0.3	