Armando Walter Colombo

List of Publications by Year in Descending Order

60	1,564	21	38
papers	citations	h-index	g-index

64	1,891	4.8	5.15
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
60	Guest Editorial Industrial Agents: Concepts, Technologies, and Applications. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2022**, 3, 2-4	2.6	
59	Screening Process Mining and Value Stream Techniques on Industrial Manufacturing Processes: Process Modelling and Bottleneck Analysis. *IEEE Access*, **2022**, 10, 24203-24214	3.5	1
58	A 70-Year Industrial Electronics Society Evolution Through Industrial Revolutions: The Rise and Flourishing of Information and Communication Technologies. *IEEE Industrial Electronics Magazine*, **2021**, 15, 115-126	6.2	9
57	Blockchain: What Does It Mean to Industrial Electronics?: Technologies, Challenges, and Opportunities. *IEEE Industrial Electronics Magazine*, **2021**, 2-12	6.2	2
56	Engineering human-focused Industrial Cyber-Physical Systems in Industry 4.0 context. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2021**, 379, 20200366	3	3
55	A Survey on Edge and Edge-Cloud Computing Assisted Cyber-Physical Systems. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 7806-7819	11.9	22
54	. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 7802-7805	11.9	5
53	Learning Industrial Cyber-Physical Systems and Industry 4.0-Compliant Solutions **2020**,		5
52	A DIN Spec 91345 RAMI 4.0 Compliant Data Pipelining Model: An Approach to Support Data Understanding and Data Acquisition in Smart Manufacturing Environments. *IEEE Access*, **2020**, 8, 223114-223129	3.5	5
51	. *IEEE Industrial Electronics Magazine*, **2020**, 14, 18-32	6.2	29
50	Quo Vadis Industry 4.0? Position, Trends, and Challenges. *IEEE Open Journal of the Industrial Electronics Society*, **2020**, 1, 298-310	3.6	11
49	Industrial Artificial Intelligence in Industry 4.0 - Systematic Review, Challenges and Outlook. *IEEE Access*, **2020**, 8, 220121-220139	3.5	55
48	Concept and case study for teaching and learning industrial digitalization. *Procedia Manufacturing*, **2019**, 31, 97-102	1.5	10
47	Using an interdisciplinary demonstration platform for teaching Industry 4.0. *Procedia Manufacturing*, **2019**, 31, 302-308	1.5	20
46	Using a semi-automated job-shop production system model to prepare students for the challenges of Industrial Cyber-Physical Systems. *Procedia Manufacturing*, **2019**, 31, 377-383	1.5	2
45	Engineering of Next Generation Cyber-Physical Automation System Architectures **2017**, 185-206		9
44	Interoperability for Industrial Cyber-Physical Systems: An Approach for Legacy Systems. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 3370-3378	11.9	84

43	Big Data Analysis in Smart Manufacturing: A Review. *International Journal of Communications, Network and System Sciences*, **2017**, 10, 31-58	0.2	32
42	An Approach for Implementing ISA 95-Compliant Big Data Observation, Analysis and Diagnosis Features in Industry 4.0 Vision Following Manufacturing Systems. *IFIP Advances in Information and Communication Technology*, **2016**, 116-123	0.5	1
41	Industrial automation based on cyber-physical systems technologies: Prototype implementations and challenges. *Computers in Industry*, **2016**, 81, 11-25	11.6	379
40	Assessment of industrial middleware technologies for the PERFoRM project **2016**,		9
39	**2016**,		23
38	Industrial Agents in the Era of Service-Oriented Architectures and Cloud-Based Industrial Infrastructures **2015**, 67-87		20
37	Impact of new ICT trends for the educational curriculum in the area of Industrial Automation and engineering **2015**,		13
36	A Service-Oriented Architecture Implementation in the Digital Factory of the University. *Lecture Notes in Computer Science*, **2015**, 73-83	0.9	3
35	Developing Interfaces Based on Services to the Cloud Manufacturing: Plug and Produce. *Lecture Notes in Electrical Engineering*, **2015**, 821-831	0.2	3
34	IMC-AESOP outcomes: Paving the way to collaborative manufacturing systems **2014**,		25
33	**2014**,		6
32	A formal engineering approach for control and monitoring systems in a service-oriented environment **2013**,		5
31	Design and simulation of a SOA-based system of systems for automation in the residential sector **2013**,		19
30	An engineering approach for industrial SoA-based systems of systems **2013**,		5
29	Integration of virtual and real environments for engineering service-oriented manufacturing systems. *Journal of Intelligent Manufacturing*, **2012**, 23, 2551-2563	6.7	21
28	A service- and multi-agent-oriented manufacturing automation architecture. *Computers in Industry*, **2012**, 63, 813-823	11.6	37
27	A SOA-based architecture for empowering future collaborative cloud-based industrial automation **2012**,		62
26	High-level Petri nets for the process description and control in service-oriented manufacturing systems. *International Journal of Production Research*, **2012**, 50, 1650-1665	7.8	21

25	Forschung und Lehre im Bereich industrielle Fertigung. *Informatik Aktuell*, **2012**, 59-68	0.3	
24	Service-Oriented Infrastructure to Support the Deployment of Evolvable Production Systems. *IEEE Transactions on Industrial Informatics*, **2011**, 7, 759-767	11.9	99
23	Configuration of SoA-based devices in virtual production cells. *International Journal of Production Research*, **2011**, 49, 7397-7423	7.8	3
22	Architecting the next generation of service-based SCADA/DCS system of systems **2011**,		69
21	SoA-based production monitoring systems for energy efficiency: A case-study using Ford⎥ POSMon system **2010**,		1
20	Improving Energy Efficiency in the Production Floor Using SoA-Based Monitoring Techniques. *IFIP Advances in Information and Communication Technology*, **2010**, 159-166	0.5	
19	Towards an architecture for service-oriented process monitoring and control **2010**,		48
18	SOA in reconfigurable supply chains: A research roadmap. *Engineering Applications of Artificial Intelligence*, **2009**, 22, 939-949	7.2	57
17	Supporting agile supply chains using a service-oriented shop floor. *Engineering Applications of Artificial Intelligence*, **2009**, 22, 950-960	7.2	28
16	Towards the energy efficient future factory **2009**,		30
15	A Service Enabled Approach to Automation Management. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 1620-1624		
14	Agent-based Control for Desktop Assembly Factories **2009**, 265-291		3
13	MAS and SOA: A Case Study Exploring Principles and Technologies to Support Self-Properties in Assembly Systems **2008**,		12
12	A generic communication interface for DPWS-based web services **2008**,		16
11	An approach for integrating real and virtual production automation devices applying the service-oriented architecture paradigm **2007**,		17
10	Diagnosis using Service Oriented Architectures (SOA) **2007**,		16
9	An agent-based intelligent control platform for industrial holonic manufacturing systems. *IEEE Transactions on Industrial Electronics*, **2006**, 53, 322-337	8.9	102
8	Engineering framework for agent-based manufacturing control. *Engineering Applications of Artificial Intelligence*, **2006**, 19, 625-640	7.2	26

LIST OF PUBLICATIONS

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7	COLLABORATIVE AUTOMATION FROM RIGID COUPLING TOWARDS DYNAMIC RECONFIGURABLE PRODUCTION SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control* , **2005**, 38, 184-192		9
6	Collaborative (Agent- Based) Factory Automation. *Industrial Electronics Series*, **2004**, 1725-1745		5
5	Specification, design, and implementation of logic controllers based on colored Petri net models and the standard IEC 1131. II. Design and implementation. *IEEE Transactions on Control Systems Technology*, **1999**, 7, 666-674	4.8	13
4	Monitoring of flexible production systems using high-level Petri net specifications. *Control Engineering Practice*, **1999**, 7, 1449-1466	3.9	9
3	Specification, design, and implementation of logic controllers based on colored Petri net models and the standard IEC 1131. I. Specification and design. *IEEE Transactions on Control Systems Technology*, **1999**, 7, 657-665	4.8	29
2	A temporised Petri net approach for design, modelling and analysis of flexible production systems. *International Journal of Advanced Manufacturing Technology*, **1997**, 13, 214-226	3.2	14
1	T-CHAT educational framework for teaching cyber-physical system engineering. *European Journal of Engineering Education*,1-30	1.5	2