

Paulo J P Leitao

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.

236
papers

4,453
citations

29
h-index

62
g-index

264
ext. papers

5,262
ext. citations

3
avg, IF

6.26
L-index

#	Paper	IF	Citations
236	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	
235	A Fuzzy Logic Recommendation System to Support the Design of Cloud-Edge Data Analysis in Cyber-Physical Systems. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2022 , 3, 174-187	3.6	0
234	A Fuzzy Logic Approach for Self-managing Energy Efficiency in IoT Nodes. <i>IFIP Advances in Information and Communication Technology</i> , 2022 , 237-251	0.5	1
233	Agent-Based Asset Administration Shell Approach for Digitizing Industrial Assets. <i>IFAC-PapersOnLine</i> , 2022 , 55, 193-198	0.7	1
232	Fault-Tolerance in Cyber-Physical Systems Using Holonic Multi-agent Systems. <i>Studies in Computational Intelligence</i> , 2022 , 51-63	0.8	
231	Multi-agent System Specification for Distributed Scheduling in Home Health Care. <i>Studies in Computational Intelligence</i> , 2022 , 77-88	0.8	
230	Secure Data Exchange in Industrial Internet of Things. <i>Neurocomputing</i> , 2021 ,	5.4	1
229	Machine Vision to Empower an Intelligent Personal Assistant for Assembly Tasks. <i>Communications in Computer and Information Science</i> , 2021 , 447-462	0.3	
228	Recommendation System using Reinforcement Learning for What-If Simulation in Digital Twin 2021 ,		1
227	Recommendation of Best Practices for Industrial Agent Systems based on the IEEE 2660.1 Standard 2021 ,		3
226	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
225	Digital Twin based What-if Simulation for Energy Management 2021 ,		5
224	An intelligent system for harmonic distortions detection in wind generator power electronic devices. <i>Neurocomputing</i> , 2021 , 456, 609-609	5.4	3
223	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
222	Analysis of New Job Profiles for the Factory of the Future. <i>Studies in Computational Intelligence</i> , 2021 , 262-273	0.8	3
221	Solving a Logistics System for Vehicle Routing Problem Using an Open-Source Tool. <i>Lecture Notes in Computer Science</i> , 2021 , 397-412	0.9	
220	Relationship between Trends, Job Profiles, Skills and Training Programs in the Factory of the Future 2021 ,		4

219	DepthLiDAR: Active Segmentation of Environment Depth Map Into Mobile Sensors. <i>IEEE Sensors Journal</i> , 2021 , 21, 19047-19057	4	1
218	Digital Technologies for Innovative Mental Health Rehabilitation. <i>Electronics (Switzerland)</i> , 2021 , 10, 2260	2.6	5
217	Multi-agent System Architecture for Distributed Home Health Care Information Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 295-303	0.5	
216	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
215	Using a Collaborative Robot to the Upper Limb Rehabilitation. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 429-440	0.4	1
214	Augmented Reality System for Multi-robot Experimentation in Warehouse Logistics. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 319-330	0.4	
213	Multi-Agent Systems to Implement Industry 4.0 Components 2020 ,		5
212	. <i>IEEE Industrial Electronics Magazine</i> , 2020 , 14, 18-32	6.2	29
211	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
210	Deployment of a Smart and Predictive Maintenance System in an Industrial Case Study 2020 ,		3
209	Analysis of the Workforce Skills for the Factories of the Future 2020 ,		4
208	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
207	Empowering Humans in a Cyber-Physical Production System: Human-in-the-loop Perspective 2019 ,		4
206	Using Internet of Things Technologies for an Efficient Data Collection in Maintenance 4.0 2019 ,		2
205	System architectures for Industrie 4.0 applications. <i>Production Engineering</i> , 2019 , 13, 247-257	1.9	40
204	Digital transformation of manufacturing through cloud services and resource virtualization. <i>Computers in Industry</i> , 2019 , 108, 150-162	11.6	75
203	Introduction to the Special Issue Robotica 2016. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 93, 417-417	2.9	
202	Development of Ergonomic User Interfaces for the Human Integration in Cyber-Physical Systems 2019 ,		1

201	Key Directions for Industrial Agent Based Cyber-Physical Production Systems 2019 ,		20
200	A Potential Field Load Scheduling Approach for Self-Sustainable Electrical Microgrids 2019 ,		3
199	Multistage Quality Control Using Machine Learning in the Automotive Industry. <i>IEEE Access</i> , 2019 , 7, 79908-79916	3.5	40
198	Modular and Self-organized Conveyor System Using Multi-agent Systems. <i>Lecture Notes in Computer Science</i> , 2019 , 259-263	0.9	2
197	-Augmented Reality to Enhanced Experimentation in Smart Warehouses. <i>Sensors</i> , 2019 , 19,	3.8	9
196	Periodic Vehicle Routing Problem in a Health Unit 2019 ,		4
195	A Multi-objective Approach to the Optimization of Home Care Visits Scheduling 2019 ,		3
194	Distributing Intelligence among Cloud, Fog and Edge in Industrial Cyber-physical Systems 2019 ,		8
193	A human centered hybrid MAS and meta-heuristics based system for simultaneously supporting scheduling and plant layout adjustment. <i>FME Transactions</i> , 2019 , 47, 699-710	1.6	7
192	Distributed Scheduling Based on Multi-agent Systems and Optimization Methods. <i>Communications in Computer and Information Science</i> , 2019 , 313-317	0.3	1
191	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
190	PERFoRM System Architecture 2019 , 67-86		
189	Experimentation of Negotiation Protocols for Consensus Problems in Smart Parking Systems. <i>Lecture Notes in Computer Science</i> , 2019 , 189-202	0.9	2
188	IASelect: Finding Best-fit Agent Practices in Industrial CPS Using Graph Databases 2019 ,		4
187	WsBot: A Tiny, Low-Cost Swarm Robot for Experimentation on Industry 4.0 2019 ,		5
186	Integration Challenges for the Deployment of a Multi-Stage Zero-Defect Manufacturing Architecture 2019 ,		6
185	Machine Learning Applied to an Intelligent and Adaptive Robotic Inspection Station 2019 ,		2
184	Digital Twin in Industry 4.0: Technologies, Applications and Challenges 2019 ,		32

183	Symbiotic Integration of Human Activities in Cyber-Physical Systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 133-138		4
182	Multi-agent System Architecture for Zero Defect Multi-stage Manufacturing. <i>Studies in Computational Intelligence</i> , 2018 , 13-26	0.8	6
181	Decentralized and on-the-fly agent-based service reconfiguration in manufacturing systems. <i>Computers in Industry</i> , 2018 , 101, 81-90	11.6	18
180	IDARTS ¶Towards intelligent data analysis and real-time supervision for industry 4.0. <i>Computers in Industry</i> , 2018 , 101, 138-146	11.6	71
179	Petri nets methodology for the design and control of migration processes towards industry 4.0 2018 ,		1
178	Quo Vadis Industry 4.0: An Overview Based on Scientific Publications Analytics 2018 ,		4
177	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
176	Integration Patterns for Interfacing Software Agents with Industrial Automation Systems 2018 ,		12
175	The Applicability of ISO/IEC 25023 Measures to the Integration of Agents and Automation Systems 2018 ,		8
174	Improvement of Multistage Quality Control through the Integration of Decision Modeling and Cyber-Physical Production Systems 2018 ,		3
173	Performance Assessment Of The Integration Between Industrial Agents And Low-Level Automation Functions 2018 ,		5
172	Implementation of a Multi-Agent System to Support ZDM Strategies in Multi-Stage Environments 2018 ,		10
171	Assessing the Integration of Software Agents and Industrial Automation Systems with ISO/IEC 25010 2018 ,		11
170	Data scientist under the Da.Re perspective: analysis of training offers, skills and challenges 2018 ,		2
169	Optimization of Home Care Visits Schedule by Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2018 , 1-12	0.9	3
168	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
167	Guest Editorial Special Section on Smart Agents and Cyber-Physical Systems for Future Industrial Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 657-659	11.9	3
166	Engineering of Next Generation Cyber-Physical Automation System Architectures 2017 , 185-206		9

165	Data driven multi-agent m-health system to characterize the daily activities of elderly people 2017 ,		4
164	Prediction Models for Short-Term Load and Production Forecasting in Smart Electrical Grids. <i>Lecture Notes in Computer Science</i> , 2017 , 186-199	0.9	2
163	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
162	Pollux: a dynamic hybrid control architecture for flexible job shop systems. <i>International Journal of Production Research</i> , 2017 , 55, 4229-4247	7.8	34
161	Key Contributing Factors to the Acceptance of Agents in Industrial Environments. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 696-703	11.9	37
160	Common practices for integrating industrial agents and low level automation functions 2017 ,		17
159	Dynamic monitoring of key-performance indicators in industrial environments 2017 ,		2
158	Petri nets approach for designing the migration process towards industrial cyber-physical production systems 2017 ,		4
157	Agent-based modeling and simulation of a small scale cyber-physical system using NetLogo 2017 ,		1
156	Loosed coupled simulation of smart grid control systems 2017 ,		1
155	A community analysis of the IEEE IES industrial agents technical committee 2017 ,		7
154	Past, present and future trends in industrial electronics standardization 2017 ,		6
153	Development of a smart electric motor testbed for Internet of Things and big data technologies 2017 ,		5
152	Agent-based reconfiguration in a micro-flow production cell 2017 ,		4
151	Migration from traditional towards cyber-physical production systems 2017 ,		13
150	Formal Specification of a Self-sustainable Holonic System for Smart Electrical Micro-grids. <i>Studies in Computational Intelligence</i> , 2017 , 179-190	0.8	2
149	Instantiating the PERFoRM System Architecture for Industrial Case Studies. <i>Studies in Computational Intelligence</i> , 2017 , 359-372	0.8	3
148	Industrial Cyber Physical Systems Supported by Distributed Advanced Data Analytics. <i>Studies in Computational Intelligence</i> , 2017 , 47-59	0.8	5

147	Optimal Schedule of Home Care Visits for a Health Care Center. <i>Lecture Notes in Computer Science</i> , 2017 , 135-147	0.9	3
146	Analysing the Impact of Rescheduling Time in Hybrid Manufacturing Control. <i>Studies in Computational Intelligence</i> , 2017 , 225-236	0.8	
145	An Agent-Based Approach for the Dynamic and Decentralized Service Reconfiguration in Collaborative Production Scenarios. <i>Lecture Notes in Computer Science</i> , 2017 , 140-154	0.9	2
144	Dynamic Service Reconfiguration with Multi-agent Systems. <i>Studies in Computational Intelligence</i> , 2017 , 307-318	0.8	1
143	Predictive data analysis driven multi-agent system approach for electrical micro grids management 2016 ,		5
142	Agent-Based Data Analysis Towards the Dynamic Adaptation of Industrial Automation Processes. <i>IFIP Advances in Information and Communication Technology</i> , 2016 , 99-106	0.5	
141	Building a Robotic Cyber-Physical Production Component. <i>Studies in Computational Intelligence</i> , 2016 , 295-305	0.8	3
140	Industrial automation based on cyber-physical systems technologies: Prototype implementations and challenges. <i>Computers in Industry</i> , 2016 , 81, 11-25	11.6	379
139	Cross benefits from cyber-physical systems and intelligent products for future smart industries 2016 ,		18
138	A dynamic hybrid control architecture for sustainable manufacturing control. <i>IFAC-PapersOnLine</i> , 2016 , 49, 114-119	0.7	
137	Dynamic Switching Mechanism to Support Self-organization in ADACOR Holonic Control System. <i>IFAC-PapersOnLine</i> , 2016 , 49, 161-166	0.7	2
136	Selection of a data exchange format for industry 4.0 manufacturing systems 2016 ,		9
135	Analyzing standardization needs for applying agent technology in industrial environments 2016 ,		1
134	Specification of the PERFoRM architecture for the seamless production system reconfiguration 2016 ,		17
133	Summer school on intelligent agents in automation: Hands-on educational experience on deploying industrial agents 2016 ,		5
132	Exploring the integration of the human as a flexibility factor in CPS enabled manufacturing environments: Methodology and results 2016 ,		38
131	Augmented reality experiments with industrial robot in industry 4.0 environment 2016 ,		32
130	A switching mechanism framework for optimal coupling of predictive scheduling and reactive control in manufacturing hybrid control architectures. <i>International Journal of Production Research</i> , 2016 , 54, 7027-7042	7.8	10

129	A Nervousness Regulator Framework for Dynamic Hybrid Control Architectures. <i>Studies in Computational Intelligence</i> , 2016 , 199-209	0.8	2
128	. <i>Proceedings of the IEEE</i> , 2016 , 104, 1086-1101	14.3	240
127	Triggering strategies for automatic and online service reconfiguration 2016 ,		2
126	Multi-Agent System for Integrating Quality and Process Control in a Home Appliance Production Line 2015 , 287-300		1
125	Intelligent products: The grace experience. <i>Control Engineering Practice</i> , 2015 , 42, 95-105	3.9	56
124	Industrial Agents in the Era of Service-Oriented Architectures and Cloud-Based Industrial Infrastructures 2015 , 67-87		20
123	Multiagent System Integrating Process and Quality Control in a Factory Producing Laundry Washing Machines. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 879-886	11.9	35
122	Genetic algorithm for flexible job shop scheduling problem - A case study 2015 ,		1
121	Improving the ADACOR2 supervisor holon scheduling mechanism with genetic algorithms 2015 ,		2
120	Simulating smart grid using a two-layer multiagent framework 2015 ,		1
119	Governance mechanism in control architectures for flexible manufacturing systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1093-1098	0.7	8
118	Standardization in cyber-physical systems: The ARUM case 2015 ,		21
117	Dynamic self-organization in holonic multi-agent manufacturing systems: The ADACOR evolution. <i>Computers in Industry</i> , 2015 , 66, 99-111	11.6	153
116	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2424-2438	8.9	295
115	Transnational lifelong education course in robotic systems 2015 ,		3
114	What-if game simulation in agent-based strategic production planners 2015 ,		2
113	Predictive data analytics for agent-based management of electrical micro grids 2015 ,		2
112	Deployment of industrial agents in heterogeneous automation environments 2015 ,		5

111	Extension of holonic paradigm to smart grids. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1099-1104	0.7	11
110	Agents enabling cyber-physical production systems. <i>Automatisierungstechnik</i> , 2015 , 63,	0.8	51
109	Increasing self-sustainability in micro grids using load prioritization and forecasting mechanisms 2015 ,		4
108	Integration of an agent-based strategic planner in an enterprise service bus ecosystem 2015 ,		4
107	An Approach for Characterizing the Operating Modes in Dynamic Hybrid Control Architectures. <i>Lecture Notes in Computer Science</i> , 2015 , 108-119	0.9	1
106	A Survey on Factors that Impact Industrial Agent Acceptance 2015 , 401-429		8
105	Adaptive Services Reconfiguration in Manufacturing Environments Using a Multi-agent System Approach. <i>Lecture Notes in Computer Science</i> , 2015 , 280-284	0.9	1
104	Self-interested Service-Oriented Agents Based on Trust and QoS for Dynamic Reconfiguration. <i>Studies in Computational Intelligence</i> , 2015 , 209-218	0.8	5
103	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
102	. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 1890-1903	11.9	114
101	Managing intelligent self-sustained electrical micro-grids 2014 ,		2
100	Challenges of ICT and artificial intelligence in smart grids 2014 ,		6
99	Dynamic Composition of Service Oriented Multi-agent System in Self-organized Environments 2014		6
98	Adaptive scheduling based on self-organized holonic swarm of schedulers 2014 ,		8
97	Self-organization Combining Incentives and Risk Management for a Dynamic Service-Oriented Multi-agent System. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 101-108	0.5	
96	Methodology for consideration of system quality within manufacturing 2013 ,		2
95	State of the Art and Future Trends of Optimality and Adaptability Articulated Mechanisms for Manufacturing Control Systems 2013 ,		2
94	Adaptation of functional inspection test plan in a production line using a multi-agent system 2013 ,		2

93	Past, Present, and Future of Industrial Agent Applications. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 2360-2372	11.9	151
92	Benchmarking flexible job-shop scheduling and control systems. <i>Control Engineering Practice</i> , 2013 , 21, 1204-1225	3.9	74
91	Multi-agent systems as automation platform for intelligent energy systems 2013 ,		12
90	Self-Organized Holonic Multi-agent Manufacturing System: The Behavioural Perspective 2013 ,		4
89	Integration of process and quality control using multi-agent technology 2013 ,		13
88	Data collection for global monitoring and trend analysis in the GRACE multi-agent system 2013 ,		2
87	Multi-agent System Approach for the Strategic Planning in Ramp-Up Production of Small Lots 2013 ,		19
86	Standards compliance in industrial agents applications 2013 ,		7
85	A Conceptual Architecture Based on Intelligent Services for Manufacturing Support Systems 2013 ,		21
84	Adaptive image pre-processing for quality control in production lines 2013 ,		3
83	Trust and risk management towards resilient large-scale Cyber-Physical Systems 2013 ,		5
82	Sensibility study in a flexible job shop scheduling problem 2013 ,		1
81	Multi-agent Systems in Industry: Current Trends & Future Challenges. <i>Topics in Intelligent Engineering and Informatics</i> , 2013 , 197-201	0.4	3
80	Towards Self-organized Service-Oriented Multi-agent Systems. <i>Studies in Computational Intelligence</i> , 2013 , 41-56	0.8	5
79	Structural Self-organized Holonic Multi-Agent Manufacturing Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 59-70	0.9	9
78	Adaptive Multi-Agent System for a Washing Machine Production Line. <i>Lecture Notes in Computer Science</i> , 2013 , 212-223	0.9	5
77	Holonic Recursiveness with Multi-Agent System Technologies. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 103-111	0.4	1
76	Inverse Kinematics of a 10 DOF Modular Hyper-Redundant Robot Resorting to Exhaustive and Error-Optimization Methods: A Comparative Study 2012 ,		9

75	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
74	Bio-inspired multi-agent systems for reconfigurable manufacturing systems. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 934-944	7.2	104
73	Nervousness in Dynamic Self-organized Holonic Multi-agent Systems. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 9-17		13
72	Service-oriented SCADA and MES supporting Petri nets based orchestrated automation systems 2012 ,		4
71	Deployment of multi-agent systems for industrial applications 2012 ,		4
70	Integrating mechatronic thinking and multi-agent approaches 2012 ,		4
69	GRACE ontology inteGrating pRocess and quAlity Control 2012 ,		8
68	Quality control agents for adaptive visual inspection in production lines 2012 ,		7
67	Modelling and validating the multi-agent system behaviour for a washing machine production line 2012 ,		4
66	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
65	Self-organized Holonic Manufacturing Systems Combining Adaptation and Performance Optimization. <i>International Federation for Information Processing</i> , 2012 , 163-170		4
64	Simulation of multi-agent manufacturing systems using Agent-Based Modelling platforms 2011 ,		23
63	A holonic disturbance management architecture for flexible manufacturing systems. <i>International Journal of Production Research</i> , 2011 , 49, 1269-1284	7.8	25
62	Towards the integration of process and quality control using multi-agent technology 2011 ,		15
61	Enhancing ADACOR with biology insights towards reconfigurable manufacturing systems 2011 ,		4
60	Service-oriented computing in manufacturing automation: A SWOT analysis 2011 ,		6
59	Combining adaptation and optimization in bio-inspired multi-agent manufacturing systems 2011 ,		3
58	Recent Developments and Future Trends of Industrial Agents. <i>Lecture Notes in Computer Science</i> , 2011 , 15-28	0.9	18

57	Multi-Agent System for On-demand Production Integrating Production and Quality Control. <i>Lecture Notes in Computer Science, 2011, 84-93</i>	0.9	16
56	Composition of Petri nets models in service-oriented industrial automation 2010,		7
55	Process optimization of service-oriented automation devices based on Petri nets 2010,		5
54	Modelling and simulating self-organizing agent-based manufacturing systems 2010,		11
53	Energy aware knowledge extraction from Petri nets supporting decision-making in service-oriented automation 2010,		4
52	Biological Inspiration to Solve Complexity in Intelligent and Adaptive Manufacturing Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 204-209</i>		
51	Solving Myopia in Real-time Decision-making using Petri nets Models Knowledge for Service-oriented Manufacturing Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 144-149</i>		3
50	Injecting Service-Orientation into Multi-Agent Systems in Industrial Automation. <i>Lecture Notes in Computer Science, 2010, 313-320</i>	0.9	3
49	Petri Net Based Engineering and Software Methodology for Service-Oriented Industrial Automation. <i>IFIP Advances in Information and Communication Technology, 2010, 233-240</i>	0.5	
48	Customizable service-oriented Petri net controllers 2009,		6
47	Agent-based distributed manufacturing control: A state-of-the-art survey. <i>Engineering Applications of Artificial Intelligence, 2009, 22, 979-991</i>	7.2	573
46	Holonic Rationale and Self-organization on Design of Complex Evolvable Systems. <i>Lecture Notes in Computer Science, 2009, 1-12</i>	0.9	13
45	Smooth migration from the Virtual design to the real manufacturing control 2009,		3
44	Decision support system for Petri nets enabled automation components 2009,		1
43	Software Methodologies for the Engineering of Service-Oriented Industrial Automation: The Continuum Project 2009,		20
42	Maintenance Management and Operational Support as Services in Reconfigurable Manufacturing Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1778-1783</i>		3
41	ENGINEERING TOOLS FOR THE INTEGRATION OF SERVICE-ORIENTED PRODUCTION SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1772-1777</i>		1
40	Service-Oriented Agents for Collaborative Industrial Automation and Production Systems. <i>Lecture Notes in Computer Science, 2009, 13-24</i>	0.9	29

39	Holonic Rationale and Bio-inspiration on Design of Complex Emergent and Evolvable Systems. <i>Lecture Notes in Computer Science</i> , 2009 , 243-266	0.9	10
38	Self-Adaptation for Robustness and Cooperation in Holonic Multi-Agent Systems. <i>Lecture Notes in Computer Science</i> , 2009 , 267-288	0.9	4
37	Implementation of a Holonic Control System in a Flexible Manufacturing System. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2008 , 38, 699-709		52
36	Decision support system in a service-oriented control architecture for industrial automation 2008 ,		5
35	High-Level Petri Nets control modules for service-oriented devices: A case study 2008 ,		6
34	Service-oriented control architecture for reconfigurable production systems 2008 ,		29
33	Service-oriented process control using High-Level Petri Nets 2008 ,		9
32	Distributed Control Patterns using Device Profile for Web Services 2008 ,		3
31	Self-Organization in Manufacturing Systems: Challenges and Opportunities 2008 ,		12
30	Specification of a Device Interface for Service-Oriented Automation Control Components. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 284-289		
29	A holonic approach to dynamic manufacturing scheduling. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008 , 24, 625-634	9.2	62
28	A Bio-Inspired Solution for Manufacturing Control Systems 2008 , 303-314		15
27	Towards Ubiquitous Production Systems and Enterprises 2007 ,		4
26	AN AGENT-BASED DISTURBANCE HANDLING ARCHITECTURE IN MANUFACTURING CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 50-55		3
25	RECONFIGURABLE PRODUCTION CONTROL SYSTEMS: BEYOND ADACOR. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 129-134		1
24	Agent-Based Inter-Organizational Workflow Management System. <i>Lecture Notes in Computer Science</i> , 2007 , 71-80	0.9	
23	Foundations for a Core Ontology of Manufacturing. <i>Integrated Series on Information Systems</i> , 2007 , 751-775		51
22	Petri net based Methodology for the Development of Collaborative Production Systems 2006 ,		9

21	AN APPROACH TO INTER-ORGANIZATIONAL WORKFLOW MANAGEMENT IN AN ELECTRONIC INSTITUTION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 429-434		3
20	ADACOR: A holonic architecture for agile and adaptive manufacturing control. <i>Computers in Industry</i> , 2006 , 57, 121-130	11.6	365
19	A Holonic Approach to Dynamic Manufacturing Scheduling. <i>International Federation for Information Processing</i> , 2006 , 37-46		1
18	. <i>IEEE Intelligent Systems</i> , 2005 , 20, 58-66	4.2	56
17	Experimental Validation of ADACOR Holonic Control System. <i>Lecture Notes in Computer Science</i> , 2005 , 121-132	0.9	7
16	The Role of Foundational Ontologies in Manufacturing Domain Applications. <i>Lecture Notes in Computer Science</i> , 2004 , 670-688	0.9	37
15	The use of Qualitative Indicators for Performance Measurement in Manufacturing Control Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 443-448		1
14	Holonic Manufacturing Control: A Practical Implementation 2004 , 33-44		4
13	Identification of ADACOR Holons for Manufacturing Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 109-114		1
12	Towards Autonomy, Self-Organisation and Learning in Holonic Manufacturing. <i>Lecture Notes in Computer Science</i> , 2003 , 544-553	0.9	1
11	Integration of Automation Resources in Holonic Manufacturing Applications. <i>Lecture Notes in Computer Science</i> , 2003 , 35-46	0.9	7
10	An Approach to the Formal Specification of Holonic Control Systems. <i>Lecture Notes in Computer Science</i> , 2003 , 59-70	0.9	11
9	A Holonic Control Approach for Distributed Manufacturing 2002 , 263-270		4
8	Trends in Agile and Co-Operative Manufacturing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 140-149		6
7	A Cell Controller Architecture Solution: Description and Analysis of Performance and Costs 1997 , 187-195		
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