Paulo J P Leitao

List of Publications by Citations

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	Agent-based distributed manufacturing control: A state-of-the-art survey. *Engineering Applications of Artificial Intelligence*, **2009**, 22, 979-991	7.2	573
235	Industrial automation based on cyber-physical systems technologies: Prototype implementations and challenges. *Computers in Industry*, **2016**, 81, 11-25	11.6	379
234	ADACOR: A holonic architecture for agile and adaptive manufacturing control. *Computers in Industry*, **2006**, 57, 121-130	11.6	365
233	. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 2424-2438	8.9	295
232	. *Proceedings of the IEEE*, **2016**, 104, 1086-1101	14.3	240
231	Dynamic self-organization in holonic multi-agent manufacturing systems: The ADACOR evolution. *Computers in Industry*, **2015**, 66, 99-111	11.6	153
230	Past, Present, and Future of Industrial Agent Applications. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 2360-2372	11.9	151
229	. *IEEE Transactions on Industrial Informatics*, **2014**, 10, 1890-1903	11.9	114
228	Bio-inspired multi-agent systems for reconfigurable manufacturing systems. *Engineering Applications of Artificial Intelligence*, **2012**, 25, 934-944	7.2	104
227	Digital transformation of manufacturing through cloud services and resource virtualization. *Computers in Industry*, **2019**, 108, 150-162	11.6	75
226	Benchmarking flexible job-shop scheduling and control systems. *Control Engineering Practice*, **2013**, 21, 1204-1225	3.9	74
225	IDARTS Towards intelligent data analysis and real-time supervision for industry 4.0. *Computers in Industry*, **2018**, 101, 138-146	11.6	71
224	A holonic approach to dynamic manufacturing scheduling. *Robotics and Computer-Integrated Manufacturing*, **2008**, 24, 625-634	9.2	62
223	Intelligent products: The grace experience. *Control Engineering Practice*, **2015**, 42, 95-105	3.9	56
222	. *IEEE Intelligent Systems*, **2005**, 20, 58-66	4.2	56
221	Implementation of a Holonic Control System in a Flexible Manufacturing System. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2008**, 38, 699-709		52
220	Agents enabling cyber-physical production systems. *Automatisierungstechnik*, **2015**, 63,	0.8	51

219	Foundations for a Core Ontology of Manufacturing. *Integrated Series on Information Systems*, **2007**, 751-775		51
218	System architectures for Industrie 4.0 applications. *Production Engineering*, **2019**, 13, 247-257	1.9	40
217	Multistage Quality Control Using Machine Learning in the Automotive Industry. *IEEE Access*, **2019**, 7, 79908-79916	3.5	40
216	Exploring the integration of the human as a flexibility factor in CPS enabled manufacturing environments: Methodology and results **2016**,		38
215	Key Contributing Factors to the Acceptance of Agents in Industrial Environments. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 696-703	11.9	37
214	The Role of Foundational Ontologies in Manufacturing Domain Applications. *Lecture Notes in Computer Science*, **2004**, 670-688	0.9	37
213	Multiagent System Integrating Process and Quality Control in a Factory Producing Laundry Washing Machines. *IEEE Transactions on Industrial Informatics*, **2015**, 11, 879-886	11.9	35
212	Pollux: a dynamic hybrid control architecture for flexible job shop systems. *International Journal of Production Research*, **2017**, 55, 4229-4247	7.8	34
211	Augmented reality experiments with industrial robot in industry 4.0 environment **2016**,		32
210	Digital Twin in Industry 4.0: Technologies, Applications and Challenges **2019**,		32
209	Service-oriented control architecture for reconfigurable production systems **2008**,		29
208	Service-Oriented Agents for Collaborative Industrial Automation and Production Systems. *Lecture Notes in Computer Science*, **2009**, 13-24	0.9	29
207	. *IEEE Industrial Electronics Magazine*, **2020**, 14, 18-32	6.2	29
206	A holonic disturbance management architecture for flexible manufacturing systems. *International Journal of Production Research*, **2011**, 49, 1269-1284	7.8	25
205	Simulation of multi-agent manufacturing systems using Agent-Based Modelling platforms **2011**,		23
204	Standardization in cyber-physical systems: The ARUM case **2015**,		21
203	Integration of virtual and real environments for engineering service-oriented manufacturing systems. *Journal of Intelligent Manufacturing*, **2012**, 23, 2551-2563	6.7	21
202	A Conceptual Architecture Based on Intelligent Services for Manufacturing Support Systems **2013**,		21

201	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
200	Industrial Agents in the Era of Service-Oriented Architectures and Cloud-Based Industrial Infrastructures **2015**, 67-87		20
199	Key Directions for Industrial Agent Based Cyber-Physical Production Systems **2019**,		20
198	Software Methodologies for the Engineering of Service-Oriented Industrial Automation: The Continuum Project **2009**,		20
197	Multi-agent System Approach for the Strategic Planning in Ramp-Up Production of Small Lots **2013**,		19
196	Decentralized and on-the-fly agent-based service reconfiguration in manufacturing systems. *Computers in Industry*, **2018**, 101, 81-90	11.6	18
195	Recent Developments and Future Trends of Industrial Agents. *Lecture Notes in Computer Science*, **2011**, 15-28	0.9	18
194	Cross benefits from cyber-physical systems and intelligent products for future smart industries **2016**,		18
193	Common practices for integrating industrial agents and low level automation functions **2017**,		17
192	Specification of the PERFoRM architecture for the seamless production system reconfiguration **2016**,		17
191	Multi-Agent System for On-demand Production Integrating Production and Quality Control. *Lecture Notes in Computer Science*, **2011**, 84-93	0.9	16
190	Towards the integration of process and quality control using multi-agent technology **2011**,		15
189	A Bio-Inspired Solution for Manufacturing Control Systems **2008**, 303-314		15
188	Migration from traditional towards cyber-physical production systems **2017**,		13
187	Nervousness in Dynamic Self-organized Holonic Multi-agent Systems. *Advances in Intelligent and Soft Computing*, **2012**, 9-17		13
186	Integration of process and quality control using multi-agent technology **2013**,		13
185	Holonic Rationale and Self-organization on Design of Complex Evolvable Systems. *Lecture Notes in Computer Science*, **2009**, 1-12	0.9	13
184	Multi-agent systems as automation platform for intelligent energy systems **2013**,		12

183	Self-Organization in Manufacturing Systems: Challenges and Opportunities **2008**,		12
182	Integration Patterns for Interfacing Software Agents with Industrial Automation Systems **2018**,		12
181	Extension of holonic paradigm to smart grids. *IFAC-PapersOnLine*, **2015**, 48, 1099-1104	0.7	11
180	Modelling and simulating self-organizing agent-based manufacturing systems **2010**,		11
179	An Approach to the Formal Specification of Holonic Control Systems. *Lecture Notes in Computer Science*, **2003**, 59-70	0.9	11
178	Quo Vadis Industry 4.0? Position, Trends, and Challenges. *IEEE Open Journal of the Industrial Electronics Society*, **2020**, 1, 298-310	3.6	11
177	Assessing the Integration of Software Agents and Industrial Automation Systems with ISO/IEC 25010 **2018**,		11
176	Agent-based holonic production control		10
175	Holonic Rationale and Bio-inspiration on Design of Complex Emergent and Evolvable Systems. *Lecture Notes in Computer Science*, **2009**, 243-266	0.9	10
174	A switching mechanism framework for optimal coupling of predictive scheduling and reactive control in manufacturing hybrid control architectures. *International Journal of Production Research*, **2016**, 54, 7027-7042	7.8	10
173	Implementation of a Multi-Agent System to Support ZDM Strategies in Multi-Stage Environments **2018**,		10
172	Engineering of Next Generation Cyber-Physical Automation System Architectures **2017**, 185-206		9
171	-Augmented Reality to Enhanced Experimentation in Smart Warehouses. *Sensors*, **2019**, 19,	3.8	9
170	Inverse Kinematics of a 10 DOF Modular Hyper-Redundant Robot Resorting to Exhaustive and Error-Optimization Methods: A Comparative Study **2012**,		9
169	Service-oriented process control using High-Level Petri Nets **2008**,		9
168	Petri net based Methodology for the Development of Collaborative Production Systems **2006**,		9
167	Structural Self-organized Holonic Multi-Agent Manufacturing Systems. *Lecture Notes in Computer Science*, **2013**, 59-70	0.9	9
166	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

165	Selection of a data exchange format for industry 4.0 manufacturing systems **2016**,		9
164	Governance mechanism in control architectures for flexible manufacturing systems. *IFAC-PapersOnLine*, **2015**, 48, 1093-1098	0.7	8
163	Integration and Deployment of a Distributed and Pluggable Industrial Architecture for the PERFoRM Project. *Procedia Manufacturing*, **2017**, 11, 896-904	1.5	8
162	Adaptive scheduling based on self-organized holonic swarm of schedulers **2014**,		8
161	GRACE ontology inteGrating pRocess and quAlity Control **2012**,		8
160	Distributing Intelligence among Cloud, Fog and Edge in Industrial Cyber-physical Systems **2019**,		8
159	A Survey on Factors that Impact Industrial Agent Acceptance **2015**, 401-429		8
158	The Applicability of ISO/IEC 25023 Measures to the Integration of Agents and Automation Systems **2018**,		8
157	A community analysis of the IEEE IES industrial agents technical committee **2017**,		7
156	Standards compliance in industrial agents applications **2013**,		7
155	Composition of Petri nets models in service-oriented industrial automation **2010**,		7
154	Quality control agents for adaptive visual inspection in production lines **2012**,		7
153	A human centered hybrid MAS and meta-heuristics based system for simultaneously supporting scheduling and plant layout adjustment. *FME Transactions*, **2019**, 47, 699-710	1.6	7
152	Empowering a Cyber-Physical System for a Modular Conveyor System with Self-organization. *Studies in Computational Intelligence*, **2018**, 157-170	0.8	7
151	Integration of Automation Resources in Holonic Manufacturing Applications. *Lecture Notes in Computer Science*, **2003**, 35-46	0.9	7
150	Experimental Validation of ADACOR Holonic Control System. *Lecture Notes in Computer Science*, **2005**, 121-132	0.9	7
149	Multi-agent System Architecture for Zero Defect Multi-stage Manufacturing. *Studies in Computational Intelligence*, **2018**, 13-26	0.8	6
148	Past, present and future trends in industrial electronics standardization **2017**,		6

147	Challenges of ICT and artificial intelligence in smart grids **2014**,		6
146	Dynamic Composition of Service Oriented Multi-agent System in Self-organized Environments **2014** ,		6
145	Customizable service-oriented Petri net controllers **2009**,		6
144	Service-oriented computing in manufacturing automation: A SWOT analysis **2011**,		6
143	High-Level Petri Nets control modules for service-oriented devices: A case study **2008**,		6
142	Trends in Agile and Co-Operative Manufacturing. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2001**, 34, 140-149		6
141	Integration Challenges for the Deployment of a Multi-Stage Zero-Defect Manufacturing Architecture **2019**,		6
140	Predictive data analysis driven multi-agent system approach for electrical micro grids management **2016**,		5
139	Development of a smart electric motor testbed for Internet of Things and big data technologies **2017**,		5
138	Deployment of industrial agents in heterogeneous automation environments **2015**,		5
137	Trust and risk management towards resilient large-scale Cyber-Physical Systems **2013**,		5
136	Process optimization of service-oriented automation devices based on Petri nets **2010**,		5
135	Decision support system in a service-oriented control architecture for industrial automation **2008**,		5
134	Multi-Agent Systems to Implement Industry 4.0 Components **2020**,		5
133	Industrial Cyber Physical Systems Supported by Distributed Advanced Data Analytics. *Studies in Computational Intelligence*, **2017**, 47-59	0.8	5
132	Towards Self-organized Service-Oriented Multi-agent Systems. *Studies in Computational Intelligence* , **2013**, 41-56	0.8	5
131	Self-interested Service-Oriented Agents Based on Trust and QoS for Dynamic Reconfiguration. *Studies in Computational Intelligence*, **2015**, 209-218	0.8	5
130	Adaptive Multi-Agent System for a Washing Machine Production Line. *Lecture Notes in Computer Science*, **2013**, 212-223	0.9	5

129	Digital Twin based What-if Simulation for Energy Management **2021**,		5
128	Summer school on intelligent agents in automation: Hands-on educational experience on deploying industrial agents **2016**,		5
127	WsBot: A Tiny, Low-Cost Swarm Robot for Experimentation on Industry 4.0 **2019**,		5
126	Performance Assessment Of The Integration Between Industrial Agents And Low-Level Automation Functions **2018**,		5
125	Digital Technologies for Innovative Mental Health Rehabilitation. *Electronics (Switzerland)*, **2021**, 10, 2260	2.6	5
124	Empowering Humans in a Cyber-Physical Production System: Human-in-the-loop Perspective **2019**,		4
123	Quo Vadis Industry 4.0: An Overview Based on Scientific Publications Analytics **2018**,		4
122	Data driven multi-agent m-health system to characterize the daily activities of elderly people **2017**,		4
121	Petri nets approach for designing the migration process towards industrial cyber-physical production systems **2017**,		4
120	Agent-based reconfiguration in a micro-flow production cell **2017**,		4
119	Increasing self-sustainability in micro grids using load prioritization and forecasting mechanisms **2015**,		4
118	Integration of an agent-based strategic planner in an enterprise service bus ecosystem **2015**,		4
117	Service-oriented SCADA and MES supporting Petri nets based orchestrated automation systems **2012**,		4
116	Deployment of multi-agent systems for industrial applications **2012**,		4
115	Integrating mechatronic thinking and multi-agent approaches **2012**,		4
114	Self-Organized Holonic Multi-agent Manufacturing System: The Behavioural Perspective **2013**,		4
113	Energy aware knowledge extraction from Petri nets supporting decision-making in service-oriented automation **2010**,		4
112	Enhancing ADACOR with biology insights towards reconfigurable manufacturing systems **2011**,		4

111	Modelling and validating the multi-agent system behaviour for a washing machine production line **2012**,		4
110	Towards Ubiquitous Production Systems and Enterprises **2007**,		4
109	Formal specification of holonic control system ADACOR product holon, using high-level Petri nets		4
108	Holonic Manufacturing Control: A Practical Implementation **2004**, 33-44		4
107	A multi-agent based cell controller		4
106	Periodic Vehicle Routing Problem in a Health Unit **2019**,		4
105	Self-Adaptation for Robustness and Cooperation in Holonic Multi-Agent Systems. *Lecture Notes in Computer Science*, **2009**, 267-288	0.9	4
104	Self-organized Holonic Manufacturing Systems Combining Adaptation and Performance Optimization. *International Federation for Information Processing*, **2012**, 163-170		4
103	Analysis of the Workforce Skills for the Factories of the Future **2020**,		4
102	IASelect: Finding Best-fit Agent Practices in Industrial CPS Using Graph Databases **2019**,		4
101	Symbiotic Integration of Human Activities in Cyber-Physical Systems. *IFAC-PapersOnLine*, **2019**, 52, 133-138	0.7	4
100	Relationship between Trends, Job Profiles, Skills and Training Programs in the Factory of the Future **2021**,		4
99	Scheduling of Home Health Care Services Based on Multi-agent Systems. *Communications in Computer and Information Science*, **2018**, 12-23	0.3	4
98	A Holonic Control Approach for Distributed Manufacturing **2002**, 263-270		4
97	Guest Editorial Special Section on Smart Agents and Cyber-Physical Systems for Future Industrial Systems. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 657-659	11.9	3
96	Building a Robotic Cyber-Physical Production Component. *Studies in Computational Intelligence*, **2016**, 295-305	0.8	3
95	A Potential Field Load Scheduling Approach for Self-Sustainable Electrical Microgrids **2019**,		3
94	Transnational lifelong education course in robotic systems **2015**,		3

93	Adaptive image pre-processing for quality control in production lines **2013**,		3
92	Combining adaptation and optimization in bio-inspired multi-agent manufacturing systems **2011**,		3
91	Smooth migration from the Virtual design to the real manufacturing control **2009**,		3
90	Maintenance Management and Operational Support as Services in Reconfigurable Manufacturing Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 1778-1783		3
89	Solving Myopia in Real-time Decision-making using Petri nets Models Knowledge for Service-oriented Manufacturing Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 144-149		3
88	Distributed Control Patterns using Device Profile for Web Services **2008**,		3
87	AN AGENT-BASED DISTURBANCE HANDLING ARCHITECTURE IN MANUFACTURING CONTROL. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 50-55		3
86	AN APPROACH TO INTER-ORGANIZATIONAL WORKFLOW MANAGEMENT IN AN ELECTRONIC INSTITUTION. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2006**, 39, 429-434		3
85	A formal validation approach for holonic control system specifications		3
84	A Multi-objective Approach to the Optimization of Home Care Visits Scheduling **2019**,		3
83	Instantiating the PERFoRM System Architecture for Industrial Case Studies. *Studies in Computational Intelligence*, **2017**, 359-372	0.8	3
82	Optimal Schedule of Home Care Visits for a Health Care Center. *Lecture Notes in Computer Science*, **2017**, 135-147	0.9	3
81	Injecting Service-Orientation into Multi-Agent Systems in Industrial Automation. *Lecture Notes in Computer Science*, **2010**, 313-320	0.9	3
80	Multi-agent Systems in Industry: Current Trends & Future Challenges. *Topics in Intelligent Engineering and Informatics*, **2013**, 197-201	0.4	3
79	Deployment of a Smart and Predictive Maintenance System in an Industrial Case Study **2020**,		3
78	Recommendation of Best Practices for Industrial Agent Systems based on the IEEE 2660.1 Standard **2021**,		3
77	An intelligent system for harmonic distortions detection in wind generator power electronic devices. *Neurocomputing*, **2021**, 456, 609-609	5.4	3
76	Hybrid System for Simultaneous Job Shop Scheduling and Layout Optimization Based on Multi-agents and Genetic Algorithm. *Advances in Intelligent Systems and Computing*, **2020**, 387-397	0.4	3

75	Analysis of New Job Profiles for the Factory of the Future. *Studies in Computational Intelligence*, **2021**, 262-273	0.8	3
74	Improvement of Multistage Quality Control through the Integration of Decision Modeling and Cyber-Physical Production Systems **2018**,		3
73	Optimization of Home Care Visits Schedule by Genetic Algorithm. *Lecture Notes in Computer Science* , **2018**, 1-12	0.9	3
72	Using Internet of Things Technologies for an Efficient Data Collection in Maintenance 4.0 **2019**,		2
71	Improving the ADACOR2 supervisor holon scheduling mechanism with genetic algorithms **2015**,		2
70	Modular and Self-organized Conveyor System Using Multi-agent Systems. *Lecture Notes in Computer Science*, **2019**, 259-263	0.9	2
69	Methodology for consideration of system quality within manufacturing **2013**,		2
68	State of the Art and Future Trends of Optimality and Adaptability Articulated Mechanisms for Manufacturing Control Systems **2013**,		2
67	Adaptation of functional inspection test plan in a production line using a multi-agent system **2013**,		2
66	Prediction Models for Short-Term Load and Production Forecasting in Smart Electrical Grids. *Lecture Notes in Computer Science*, **2017**, 186-199	0.9	2
65	Dynamic monitoring of key-performance indicators in industrial environments **2017**,		2
64	What-if game simulation in agent-based strategic production planners **2015**,		2
63	Predictive data analytics for agent-based management of electrical micro grids **2015**,		2
62	Managing intelligent self-sustained electrical micro-grids **2014**,		2
61	Data collection for global monitoring and trend analysis in the GRACE multi-agent system **2013**,		2
60	Agent-Based Approach for Decentralized Data Analysis in Industrial Cyber-Physical Systems. *Lecture Notes in Computer Science*, **2019**, 130-144	0.9	2
59	An Agent-Based Industrial Cyber-Physical System Deployed in an Automobile Multi-stage Production System. *Studies in Computational Intelligence*, **2020**, 379-391	0.8	2
58	Experimentation of Negotiation Protocols for Consensus Problems in Smart Parking Systems. *Lecture Notes in Computer Science*, **2019**, 189-202	0.9	2

57	Formal Specification of a Self-sustainable Holonic System for Smart Electrical Micro-grids. *Studies in Computational Intelligence*, **2017**, 179-190	0.8	2
56	Behavioural Validation of the ADACOR2 Self-organized Holonic Multi-agent Manufacturing System. *Lecture Notes in Computer Science*, **2015**, 59-70	0.9	2
55	An Agent-Based Approach for the Dynamic and Decentralized Service Reconfiguration in Collaborative Production Scenarios. *Lecture Notes in Computer Science*, **2017**, 140-154	0.9	2
54	Dynamic Switching Mechanism to Support Self-organization in ADACOR Holonic Control System. *IFAC-PapersOnLine*, **2016**, 49, 161-166	0.7	2
53	A Nervousness Regulator Framework for Dynamic Hybrid Control Architectures. *Studies in Computational Intelligence*, **2016**, 199-209	0.8	2
52	Triggering strategies for automatic and online service reconfiguration **2016**,		2
51	Machine Learning Applied to an Intelligent and Adaptive Robotic Inspection Station **2019**,		2
50	Data scientist under the Da.Re perspective: analysis of training offers, skills and challenges **2018**,		2
49	Multi-Agent System for Integrating Quality and Process Control in a Home Appliance Production Line **2015**, 287-300		1
48	Genetic algorithm for flexible job shop scheduling problem - A case study **2015**,		1
47	Simulating smart grid using a two-layer multiagent framework **2015**,		1
46	Petri nets methodology for the design and control of migration processes towards industry 4.0 **2018**,		1
45	Development of Ergonomic User Interfaces for the Human Integration in Cyber-Physical Systems **2019**,		1
44	Agent-based modeling and simulation of a small scale cyber-physical system using NetLogo **2017**,		1
43	Loosed coupled simulation of smart grid control systems **2017**,		1
42	Sensibility study in a flexible job shop scheduling problem **2013**,		1
41	Decision support system for Petri nets enabled automation components **2009**,		1
40	ENGINEERING TOOLS FOR THE INTEGRATION OF SERVICE-ORIENTED PRODUCTION SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 1772-1777		1

39	RECONFIGURABLE PRODUCTION CONTROL SYSTEMS: BEYOND ADACOR. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 129-134		1
38	Disturbance Detection, Recover and Prediction in Holonic Manufacturing Control		1
37	Identification of ADACOR Holons for Manufacturing Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2003**, 36, 109-114		1
36	Towards Autonomy, Self-Organisation and Learning in Holonic Manufacturing. *Lecture Notes in Computer Science*, **2003**, 544-553	0.9	1
35	The use of Qualitative Indicators for Performance Measurement in Manufacturing Control Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2004**, 37, 443-448		1
34	Formal Specification of ADACOR Holonic Control System: Coordination Models		1
33	Secure Data Exchange in Industrial Internet of Things. *Neurocomputing*, **2021**,	5.4	1
32	Recommendation System using Reinforcement Learning for What-If Simulation in Digital Twin **2021** ,		1
31	A Holonic Approach to Dynamic Manufacturing Scheduling. *International Federation for Information Processing*, **2006**, 37-46		1
30	Distributed Scheduling Based on Multi-agent Systems and Optimization Methods. *Communications in Computer and Information Science*, **2019**, 313-317	0.3	1
29	Using a Collaborative Robot to the Upper Limb Rehabilitation. *Advances in Intelligent Systems and Computing*, **2020**, 429-440	0.4	1
28	An Approach for Characterizing the Operating Modes in Dynamic Hybrid Control Architectures. *Lecture Notes in Computer Science*, **2015**, 108-119	0.9	1
27	Adaptive Services Reconfiguration in Manufacturing Environments Using a Multi-agent System Approach. *Lecture Notes in Computer Science*, **2015**, 280-284	0.9	1
26	Dynamic Service Reconfiguration with Multi-agent Systems. *Studies in Computational Intelligence*, **2017**, 307-318	0.8	1
25	Holonic Recursiveness with Multi-Agent System Technologies. *Advances in Intelligent Systems and Computing*, **2013**, 103-111	0.4	1
24	Analyzing standardization needs for applying agent technology in industrial environments **2016**,		1
23	Agent-based Distributed Data Analysis in Industrial Cyber-Physical Systems. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2021**, 1-1	2.6	1
22	DepthLiDAR: Active Segmentation of Environment Depth Map Into Mobile Sensors. *IEEE Sensors Journal*, **2021**, 21, 19047-19057	4	1

21	A Fuzzy Logic Approach for Self-managing Energy Efficiency in IoT Nodes. *IFIP Advances in Information and Communication Technology*, **2022**, 237-251	0.5	1
20	Agent-Based Asset Administration Shell Approach for Digitizing Industrial Assets. *IFAC-PapersOnLine*, **2022**, 55, 193-198	0.7	1
19	A Fuzzy Logic Recommendation System to Support the Design of Cloud-Edge Data Analysis in Cyber-Physical Systems. *IEEE Open Journal of the Industrial Electronics Society*, **2022**, 3, 174-187	3.6	0
18	Introduction to the Special Issue Robotica 2016 *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2019**, 93, 417-417	2.9	
17	Agent-Based Data Analysis Towards the Dynamic Adaptation of Industrial Automation Processes. *IFIP Advances in Information and Communication Technology*, **2016**, 99-106	0.5	
16	Biological Inspiration to Solve Complexity in Intelligent and Adaptive Manufacturing Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 204-209		
15	Specification of a Device Interface for Service-Oriented Automation Control Components. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 284-289		
14	Guest Editorial Industrial Agents: Concepts, Technologies, and Applications. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2022**, 3, 2-4	2.6	
13	Agent-Based Inter-Organizational Workflow Management System. *Lecture Notes in Computer Science*, **2007**, 71-80	0.9	
12	Machine Vision to Empower an Intelligent Personal Assistant for Assembly Tasks. *Communications in Computer and Information Science*, **2021**, 447-462	0.3	
11	PERFoRM System Architecture **2019**, 67-86		
10	Augmented Reality System for Multi-robot Experimentation in Warehouse Logistics. *Advances in Intelligent Systems and Computing*, **2020**, 319-330	0.4	
9	A Cell Controller Architecture Solution: Description and Analysis of Performance and Costs **1997**, 187-195		
8	Analysing the Impact of Rescheduling Time in Hybrid Manufacturing Control. *Studies in Computational Intelligence*, **2017**, 225-236	0.8	
7	Petri Net Based Engineering and Software Methodology for Service-Oriented Industrial Automation. *IFIP Advances in Information and Communication Technology*, **2010**, 233-240	0.5	
6	Self-organization Combining Incentives and Risk Management for a Dynamic Service-Oriented Multi-agent System. *IFIP Advances in Information and Communication Technology*, **2014**, 101-108	0.5	
5	A dynamic hybrid control architecture for sustainable manufacturing control. *IFAC-PapersOnLine*, **2016**, 49, 114-119	0.7	
4	Solving a Logistics System for Vehicle Routing Problem Using an Open-Source Tool. *Lecture Notes in Computer Science*, **2021**, 397-412	0.9	

3	Multi-agent System Architecture for Distributed Home Health Care Information Systems. *IFIP Advances in Information and Communication Technology*, **2021**, 295-303	0.5
2	Fault-Tolerance in Cyber-Physical Systems Using Holonic Multi-agent Systems. *Studies in Computational Intelligence*, **2022**, 51-63	0.8
1	Multi-agent System Specification for Distributed Scheduling in Home Health Care. *Studies in Computational Intelligence*, **2022**, 77-88	0.8