

Jose Barata

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.

216 papers	1,889 citations	21 h-index	33 g-index
242 ext. papers	2,305 ext. citations	2.2 avg, IF	5.23 L-index

#	Paper	IF	Citations
216	Open Innovation Association with Feeling Economy. <i>IFIP Advances in Information and Communication Technology</i> , 2022 , 26-34	0.5	
215	Asynchronous Communication Between Modular Cyber-Physical Production Systems and Arduino Based Industrial Controllers. <i>IFIP Advances in Information and Communication Technology</i> , 2022 , 53-61	0.5	
214	Feeling Smart Industry 2021 ,		1
213	Application of a Simulation-Based Digital Twin for Predicting Distributed Manufacturing Control System Performance. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2202	2.6	6
212	Smart Manufacturing Scheduling ApproachesSystematic Review and Future Directions. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2186	2.6	5
211	Characterising the Agriculture 4.0 LandscapeEmerging Trends, Challenges and Opportunities. <i>Agronomy</i> , 2021 , 11, 667	3.6	21
210	Event-Driven Interoperable Manufacturing Ecosystem for Energy Consumption Monitoring. <i>Energies</i> , 2021 , 14, 3620	3.1	3
209	Characteristics of Adaptable Control of Production Systems and the Role of Self-organization Towards Smart Manufacturing. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 39-50	0.5	0
208	Simulation-Based Data Augmentation for the Quality Inspection of Structural Adhesive With Deep Learning. <i>IEEE Access</i> , 2021 , 1-1	3.5	5
207	Integration of Cutting-Edge Interoperability Approaches in Cyber-Physical Production Systems and Industry 4.0. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2021 , 144-172	0.4	3
206	Predictive Manufacturing: Enabling Technologies, Frameworks and Applications. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 51-61	0.5	1
205	Mapping Industry 4.0 Enabling Technologies into United Nations Sustainability Development Goals. <i>Sustainability</i> , 2021 , 13, 2560	3.6	21
204	Generative Adversarial Networks for Data Augmentation in Structural Adhesive Inspection. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3086	2.6	2
203	Digital twin-based optimiser for self-organised collaborative cyber-physical production systems. <i>Manufacturing Letters</i> , 2021 , 29, 79-83	4.5	1
202	Cloud Based Decision Making for Multi-agent Production Systems. <i>Lecture Notes in Computer Science</i> , 2021 , 673-686	0.9	2
201	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, 223114-223129	3.5	5
200	Industrial Artificial Intelligence in Industry 4.0 - Systematic Review, Challenges and Outlook. <i>IEEE Access</i> , 2020 , 8, 220121-220139	3.5	55

199	Semantic Navigation Mapping from Aerial Multispectral Imagery 2019 ,		5
198	Autonomous 3-D Aerial Navigation System for Precision Agriculture 2019 ,		1
197	A Markov Process-Based Approach for Reliability Evaluation of the Propulsion System in Multi-rotor Drones. <i>IFIP Advances in Information and Communication Technology</i> , 2019 , 91-98	0.5	4
196	Production Scheduling Requirements to Smart Manufacturing. <i>IFIP Advances in Information and Communication Technology</i> , 2019 , 227-237	0.5	1
195	Digital transformation of manufacturing through cloud services and resource virtualization. <i>Computers in Industry</i> , 2019 , 108, 150-162	11.6	75
194	Production and Maintenance Scheduling Supported by Genetic Algorithms. <i>IFIP Advances in Information and Communication Technology</i> , 2019 , 49-59	0.5	0
193	A Potential Field Load Scheduling Approach for Self-Sustainable Electrical Microgrids 2019 ,		3
192	Multistage Quality Control Using Machine Learning in the Automotive Industry. <i>IEEE Access</i> , 2019 , 7, 79908-79916	3.5	40
191	Computational Creativity to Design Cyber-Physical Systems in Industry 4.0. <i>IFIP Advances in Information and Communication Technology</i> , 2019 , 29-40	0.5	4
190	NOVAAS: A Reference Implementation of Industrie4.0 Asset Administration Shell with best-of-breed practices from IT engineering 2019 ,		6
189	Agent-based Plug and Produce Cyber-Physical Production System Test Case 2019 ,		6
188	Artificial immune systems based multi-agent architecture to perform distributed diagnosis. <i>Journal of Intelligent Manufacturing</i> , 2019 , 30, 2025-2037	6.7	9
187	Human-Aware Navigation for Autonomous Mobile Robots for Intra-factory Logistics. <i>Lecture Notes in Computer Science</i> , 2018 , 79-85	0.9	2
186	IDARTS Test Case Towards intelligent data analysis and real-time supervision for industry 4.0. <i>Computers in Industry</i> , 2018 , 101, 138-146	11.6	71
185	Vision-based UAV detection and tracking using motion signatures 2018 ,		6
184	Improvement of Multistage Quality Control through the Integration of Decision Modeling and Cyber-Physical Production Systems 2018 ,		3
183	Continuous Reinforcement Operator applied to Resilience in Disaster Rescue Networks 2018 ,		1
182	GOODMAN Data Model - Interoperability in Multistage Zero Defect Manufacturing 2018 ,		7

181	Towards a Framework for Interoperable and Interconnected CPS-populated Systems for Proactive Maintenance 2018 ,		1
180	Resilience Supported System for Innovative Water Monitoring Technology. <i>IFIP Advances in Information and Communication Technology</i> , 2018 , 73-80	0.5	
179	A Highly Flexible, Distributed Data Analysis Framework for Industry 4.0 Manufacturing Systems. <i>Studies in Computational Intelligence</i> , 2017 , 373-381	0.8	8
178	Data Mining of Energy Consumption in Manufacturing Environment. <i>Studies in Computational Intelligence</i> , 2017 , 157-166	0.8	
177	Environment to Simulate Distributed Agent Based Manufacturing Systems. <i>Studies in Computational Intelligence</i> , 2017 , 405-416	0.8	3
176	Dynamic Simulation for MAS-Based Data Acquisition and Pre-processing in Manufacturing Using V-REP. <i>IFIP Advances in Information and Communication Technology</i> , 2017 , 125-134	0.5	1
175	Approach to Adapt a Legacy Manufacturing System Into the IoT Paradigm. <i>International Journal of Interactive Mobile Technologies</i> , 2017 , 11, 91	1.1	8
174	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
173	A multi-agent framework for capability-based reconfiguration of industrial assembly systems. <i>International Journal of Production Research</i> , 2017 , 55, 2950-2960	7.8	17
172	2017 ,		2
171	Loosed coupled simulation of smart grid control systems 2017 ,		1
170	Orchestrating loosely coupled and distributed components for product/process servitization 2017 ,		1
169	Holistic Context-Sensitivity for Run-Time Optimization of Flexible Manufacturing Systems. <i>Sensors</i> , 2017 , 17,	3.8	16
168	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
167	Big Data Analysis to Ease Interconnectivity in Industry 4.0A Smart Factory Perspective. <i>Studies in Computational Intelligence</i> , 2017 , 237-245	0.8	4
166	An Evolvable and Adaptable Agent Based Smart Grid ManagementA Simulation Environment. <i>Studies in Computational Intelligence</i> , 2017 , 417-426	0.8	1
165	Sign Language Support IAdding a Gesture Library to the Leap Motion SDK. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 109-116	0.2	
164	Improving the Learning of Child Movements Through Games. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 15-22	0.2	

163	Using Games for the Phonetics Awareness of Children with Down Syndrome. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 1-8	0.2	
162	Semantic Model to Perform Pluggability of Heterogeneous Smart Devices into Smart City Environment. <i>Studies in Computational Intelligence</i> , 2017 , 327-335	0.8	
161	A Generic Reconfigurable and Pluggable Material Handling System Based on Genetic Algorithm. <i>Studies in Computational Intelligence</i> , 2017 , 103-113	0.8	
160	Collaborative Data Mining for Intelligent Home Appliances. <i>IFIP Advances in Information and Communication Technology</i> , 2016 , 313-323	0.5	10
159	Context Awareness for Flexible Manufacturing Systems Using Cyber Physical Approaches. <i>IFIP Advances in Information and Communication Technology</i> , 2016 , 107-115	0.5	11
158	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
157	An Aerial-Ground Robotic Team for Systematic Soil and Biota Sampling in Estuarine Mudflats. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 15-26	0.4	3
156	A Platform to Support the Product Servitization. <i>International Journal of Advanced Computer Science and Applications</i> , 2016 , 7,	1.7	3
155	Games Social Tech Booster Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016 , 119-126	0.2	3
154	Laser-Based Obstacle Detection at Railway Level Crossings. <i>Journal of Sensors</i> , 2016 , 2016, 1-11	2	10
153	Sediment Sampling in Estuarine Mudflats with an Aerial-Ground Robotic Team. <i>Sensors</i> , 2016 , 16,	3.8	8
152	Layout validation and re-configuration in Plug&Produce systems. <i>Assembly Automation</i> , 2016 , 36, 412-428	1	1
151	On the design of the ROBO-PARTNER Intra-factory logistics autonomous robot 2016 ,		4
150	A cooperative multi-robot team for the surveillance of shipwreck survivors at sea 2016 ,		15
149	Selection of a data exchange format for industry 4.0 manufacturing systems 2016 ,		9
148	Functionalities of multi-agent systems in Programmable Logic Controllers. <i>IFAC-PapersOnLine</i> , 2016 , 49, 60-64	0.7	
147	Gaze-directed telemetry in high latency wireless communications: The case of robot teleoperation 2016 ,		3
146	Specification of the PERFoRM architecture for the seamless production system reconfiguration 2016 ,		17

145	Summer school on intelligent agents in automation: Hands-on educational experience on deploying industrial agents 2016 ,		5
144	On Exploiting Haptic Cues for Self-Supervised Learning of Depth-Based Robot Navigation Affordances. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 80, 455-474	2.9	6
143	The Adapter module: A building block for Self-Learning Production Systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2015 , 36, 25-35	9.2	10
142	PRIME as a Generic Agent Based Framework to Support Pluggability and Reconfigurability Using Different Technologies. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 101-110	0.5	3
141	Industrial Agents for the Fast Deployment of Evolvable Assembly Systems 2015 , 301-322		11
140	Water detection from downwash-induced optical flow for a multirotor UAV 2015 ,		2
139	An open-source watertight unmanned aerial vehicle for water quality monitoring 2015 ,		8
138	The Migration from Conventional Manufacturing Systems for Multi-Agent Paradigm: the First Step. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 111-118	0.5	3
137	A multiagent based knowledge extraction framework to support plug and produce capabilities in manufacturing monitoring systems 2015 ,		3
136	A Health and Usage Monitoring System for ROS-based service robots 2015 ,		1
135	A critical survey on marsupial robotic teams for environmental monitoring of water bodies 2015 ,		2
134	Hand Gesture Recognition towards Enhancing Accessibility. <i>Procedia Computer Science</i> , 2015 , 67, 419-429.	2.6	5
133	An agent based monitoring architecture for plug and produce based manufacturing systems 2015 ,		14
132	Towards a Capability-based Framework for Reconfiguring Industrial Production Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 2077-2082	0.7	7
131	Collaborative routing of products using a self-organizing mechatronic agent framework: A simulation study. <i>Computers in Industry</i> , 2015 , 68, 27-39	11.6	21
130	A Cloud-Based Infrastructure to Support Manufacturing Resources Composition. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 82-89	0.5	2
129	A Framework for Evaluation of Resilience of Disaster Rescue Networks. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 146-158	0.5	5
128	Context Classifier for Service Robots. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 196-203	0.5	1

127	Exploring reconfiguration alternatives in self-organising evolvable production systems through simulation 2014 ,		4
126	Self-supervised learning of depth-based navigation affordances from haptic cues 2014 ,		3
125	A Vision-Based Approach to Fire Detection. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 149	1.4	19
124	An autonomous surface-aerial marsupial robotic team for riverine environmental monitoring: Benefiting from coordinated aerial, underwater, and surface level perception 2014 ,		13
123	Saliency-based cooperative landing of a multirotor aerial vehicle on an autonomous surface vehicle 2014 ,		3
122	A volumetric representation for obstacle detection in vegetated terrain 2014 ,		1
121	An agent based framework to support plug and produce 2014 ,		24
120	Performance Assessment in Self-organising Mechatronic Systems: A First Step towards Understanding the Topology Influence in Complex Behaviours. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 75-84	0.5	1
119	2014 ,		6
118	The impact of cloud manufacturing on supply chain agility 2014 ,		5
117	Challenges and Properties for Bio-inspiration in Manufacturing. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 139-148	0.5	5
116	On the Design of a Robotic System Composed of an Unmanned Surface Vehicle and a Piggybacked VTOL. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 193-200	0.5	13
115	The Distributed Generation as an Important Contribution to Energy Development in Angola and Other Developing African Countries. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 269-276	0.5	1
114	The ProFlex Methodology: Agile Manufacturing in Practice. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 149-156	0.5	
113	A Multi Agent Architecture to Support Self-organizing Material Handling. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 93-100	0.5	1
112	Tracking natural trails with swarm-based visual saliency. <i>Journal of Field Robotics</i> , 2013 , 30, 64-86	6.7	22
111	Neural-swarm visual saliency for path following. <i>Applied Soft Computing Journal</i> , 2013 , 13, 3021-3032	7.5	4
110	Online self-reconfigurable robot navigation in heterogeneous environments 2013 ,		4

109	Self-organizing multiagent mechatronic systems in perspective 2013 ,		4
108	Enhancing device exchange agility in Service-oriented industrial automation 2013 ,		4
107	Context Awareness for Self-adaptive and Highly Available Production Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 210-217	0.5	4
106	Control System Software Design Methodology for Automotive Industry 2013 ,		1
105	Energy Efficiency in Machine Tools - A Self-Learning Approach 2013 ,		2
104	Reliable Self-Learning Production Systems Based on Context Aware Services 2013 ,		6
103	Multiagent Mechatronic Systems with Simulation on the Loop 2013 ,		2
102	Bio-inspired self-organised mechatronic-agent interactions to support product emergence 2013 ,		1
101	Prospection of Methods to Support Design and Configuration of Self-Organizing Mechatronic Systems 2013 ,		1
100	Kelpie: A ROS-Based Multi-robot Simulator for Water Surface and Aerial Vehicles 2013 ,		6
99	Self-Learning Production Systems (SLPS) [Energy management application for machine tools 2013 ,		3
98	Self-Learning Production Systems (SLPS) - Optimization of manufacturing process parameters for the shoe industry 2013 ,		3
97	Self-Learning approach to support lifecycle optimization of Manufacturing processes 2013 ,		2
96	A study of JADE's messaging RTT performance using distinct message exchange patterns 2013 ,		2
95	Bio-inspired Self-Organising Methodologies for Production Emergence 2013 ,		1
94	Self-Learning Production Systems: Adapter Reference Architecture. <i>Lecture Notes in Mechanical Engineering</i> , 2013 , 681-693	0.4	1
93	On Collaborative Aerial and Surface Robots for Environmental Monitoring of Water Bodies. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 183-191	0.5	3
92	Deployment of Multiagent Mechatronic Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 71-82	0.9	5

91	A vision-based system for early fire detection 2012 ,		10
90	Service-oriented infrastructure at device level to implement agile factories 2012 ,		2
89	ARES-III: A versatile multi-purpose all-terrain robot 2012 ,		2
88	IMS 10Validation of a co-evolving diagnostic algorithm for evolvable production systems. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 1142-1160	7.2	2
87	Water detection with segmentation guided dynamic texture recognition 2012 ,		13
86	Visualization tool to support multi-agent mechatronic based systems 2012 ,		3
85	A product handling technical architecture for multiagent-based mechatronic systems 2012 ,		1
84	A structural analysis of emerging production systems 2012 ,		4
83	Context extraction for self-learning production systems 2012 ,		13
82	The IDEAS project: plug & produce at shop-floor level. <i>Assembly Automation</i> , 2012 , 32, 124-134	2.1	77
81	A Symbiotic Lenticular Airship for WiSAR Missions. <i>Lecture Notes in Computer Science</i> , 2012 , 475-483	0.9	0
80	Adapter for Self-Learning Production Systems. <i>International Federation for Information Processing</i> , 2012 , 171-178		2
79	High Maneuverability Lenticular Airship. <i>International Federation for Information Processing</i> , 2012 , 207-216		
78	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
77	Re-thinking diagnosis for future automation systems: An analysis of current diagnostic practices and their applicability in emerging IT based production paradigms. <i>Computers in Industry</i> , 2011 , 62, 639-659	11.6	45
76	Stereo-based all-terrain obstacle detection using visual saliency. <i>Journal of Field Robotics</i> , 2011 , 28, 241-263	7.3	16
75	A standard-based software infrastructure to support energy efficiency using renewable energy sources 2011 ,		6
74	Self-learning embedded services for integration of complex, flexible production systems 2011 ,		15

73	Where evolvable production systems meet complexity science 2011 ,	5
72	Self-organization in automation - the IDEAS pre-demonstrator 2011 ,	15
71	Service oriented computing to Self-Learning production system 2011 ,	5
70	IT support of mechatronic networks: A brief survey 2011 ,	5
69	DPWS as Specific Communication Service Mapping for IEC 61850 2011 ,	6
68	Context and implications of learning in Evolvable Production Systems 2011 ,	1
67	Diagnosis in Networks of Mechatronic Agents: Validation of a Fault Propagation Model and Performance Assessment. <i>International Federation for Information Processing</i> , 2011 , 205-214	1
66	Service-oriented Architecture at device level to support Evolvable Production Systems 2010 ,	2
65	A saliency-based approach to boost trail detection 2010 ,	4
64	An agent-based interaction-oriented shop floor to support emergent diagnosis 2010 ,	10
63	Emergent diagnosis for Evolvable Production Systems 2010 ,	4
62	A saliency-based solution for robust off-road obstacle detection 2010 ,	6
61	Swarm-based visual saliency for trail detection 2010 ,	10
60	Implementing self-organisation and self-management in evolvable assembly systems 2010 ,	7
59	Evolvable Production Systems: New domains within mechatronic production equipment 2010 ,	13
58	Global Vs Local: A Comparison of Two Approaches to Perform Diagnosis in Networks of Mechatronic Agents 2010 ,	1
57	Semantic SOA approach to support agile reengineering at device level. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 156-161	
56	Outlook report on the future of European assembly automation. <i>Assembly Automation</i> , 2010 , 30, 7-31	2.1 18

55	A co-Evolving Diagnostic Algorithm for Evolvable Production Systems: A Case of Learning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 126-131		
54	Towards a service based infrastructure to improve efficiency into energy systems: the NEMO&CODED quest. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 162-167		1
53	Component-Based Approach to the Development of Self-X Automation Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 222-227		3
52	Distributed systems – from natural to engineered: three phases of inspiration by nature. <i>International Journal of Bio-Inspired Computation</i> , 2010 , 2, 258	2.9	8
51	Evolvable Production Systems: An Integrated View on Recent Developments. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 841-854		15
50	Evolvable Production Systems: Mechatronic Production Equipment with Evolutionary Control. <i>IFIP Advances in Information and Communication Technology</i> , 2010 , 133-142	0.5	4
49	Applications of Dynamic Deployment of Services in Industrial Automation. <i>IFIP Advances in Information and Communication Technology</i> , 2010 , 151-158	0.5	5
48	Predicting Affordances from Gist. <i>Lecture Notes in Computer Science</i> , 2010 , 325-334	0.9	2
47	The Meaningfulness of Consensus and Context in Diagnosing Evolvable Production Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2010 , 143-150	0.5	5
46	SOA in reconfigurable supply chains: A research roadmap. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 939-949	7.2	57
45	Supporting agile supply chains using a service-oriented shop floor. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 950-960	7.2	28
44	Generic management services for DPWS-enabled devices 2009 ,		23
43	Evolvable production systems 2009 ,		7
42	An architecture for self-managing evolvable assembly systems 2009 ,		11
41	Maintenance Management and Operational Support as Services in Reconfigurable Manufacturing Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1778-1783		3
40	EVOLVABLE PRODUCTION SYSTEMS : MECHATRONIC PRODUCTION EQUIPMENT WITH PROCESS-BASED DISTRIBUTED CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 80-85		10
39	Saliency-Based Obstacle Detection and Ground-Plane Estimation for Off-Road Vehicles. <i>Lecture Notes in Computer Science</i> , 2009 , 275-284	0.9	4
38	Designing Self-Organization for Evolvable Assembly Systems 2008 ,		26

37	MAS and SOA: A Case Study Exploring Principles and Technologies to Support Self-Properties in Assembly Systems 2008 ,		12
36	An architecture for a fault tolerant highly reconfigurable shop floor 2008 ,		5
35	A generic communication interface for DPWS-based web services 2008 ,		16
34	Shared control of a pan-tilt camera on an all-terrain mobile robot 2008 ,		1
33	Cross-country obstacle detection: Space-variant resolution and outliers removal 2008 ,		9
32	OWL Ontology to Support Evolvable Assembly Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 290-295		6
31	A multiagent-based control system applied to an educational shop floor. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008 , 24, 597-605	9.2	29
30	The Ares Robot: Case Study of an Affordable Service Robot 2008 , 33-42		5
29	Evolvable Assembly Systems: From Evaluation to Application 2008 , 205-214		5
28	MAS and SOA: Complementary Automation Paradigms 2008 , 259-268		40
27	2007 ,		14
26	Evolvable Assembly Systems: Towards User Friendly Manufacturing 2007 ,		7
25	Diagnosis on Evolvable Production Systems 2007 ,		13
24	Sustainable Robots for Humanitarian Demining. <i>International Journal of Advanced Robotic Systems</i> , 2007 , 4, 23	1.4	11
23	A MULTIAGENT BASED CONTROL SYSTEM FOR AN ASSEMBLY CELL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 116-121		
22	Diagnosis using Service Oriented Architectures (SOA) 2007 ,		16
21	A Multiagent Control System for Shop Floor Assembly. <i>Lecture Notes in Computer Science</i> , 2007 , 293-3020.9		30
20	A Motion Controller for Compliant Four-Wheel-Steering Robots 2006 ,		5

19	Evolvable Assembly and Exploiting Emergent Behaviour 2006 ,		4
18	Evolvable Assembly Systems - On the role of design frameworks and supporting ontologies 2006 ,		11
17	A Multiagent Based Control System Applied to an Educational Shop Floor 2006 , 119-128		6
16	Evolvable Assembly Systems Basic Principles 2006 , 317-328		29
15	Multiagents Applied to Humanitarian Demining. <i>Lecture Notes in Computer Science</i> , 2005 , 649-652	0.9	1
14	Emerging Collaborative Forms 2004 , 41-64		2
13	A Methodology for Shop Floor Reengineering Based on Multiagents 2004 , 117-128		1
12	Coalitions of manufacturing components for shop floor agility - the CoBASA architecture. <i>International Journal of Networking and Virtual Organisations</i> , 2003 , 2, 50	0.4	58
11	Contract Management in Agile Manufacturing Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2002 , 109-122	0.5	2
10	Contract-Based Approach For Shop-Floor Re-Engineering. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 132-139		
9	Trends in Agile and Co-Operative Manufacturing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 140-149		6
8	Shop Floor Reengineering to Support Agility in Virtual Enterprise Environments. <i>IFIP Advances in Information and Communication Technology</i> , 2001 , 381-394	0.5	
7	Precision X-Y robotic object handling using a dual GMR bridge sensor. <i>IEEE Transactions on Magnetism</i> , 2000 , 36, 2782-2784	2	5
6	Integration and learning in supervision of flexible assembly systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 1996 , 12, 202-219		23
5	Towards a taxonomy of CIM activities. <i>International Journal of Computer Integrated Manufacturing</i> , 1995 , 8, 160-176	4.3	9
4	An architecture development approach for evolvable assembly systems		18
3	A multiagent based control approach for evolvable assembly systems		18
2	European assembly: opportunities or threats?		4

1 Implementing a contract-based multi-agent approach for shop floor agility

2