Laszlo Monostori

List of Publications by Year
in descending order

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85 papers	4,626 citations	172457 29 h-index	98798 67 g-index
90 all docs	90 docs citations	90 times ranked	3071 citing authors

#	Article	IF	Citations
1	Evolution and future of manufacturing systems. CIRP Annals - Manufacturing Technology, 2021, 70, 635-658.	3.6	103
2	Towards living manufacturing systems. Procedia CIRP, 2020, 93, 323-328.	1.9	13
3	Bio-inspired control of automated stem cell production. Procedia CIRP, 2020, 88, 600-605.	1.9	8
4	Lessons Learned from the COVID-19 Pandemic and Their Possible Consequences on Manufacturing. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200063.	0.7	10
5	Cyber-Physical Systems. , 2019, , 460-467.		4
6	Biologicalisation: Biological transformation in manufacturing. CIRP Journal of Manufacturing Science and Technology, 2018, 21, 1-32.	4.5	130
7	PRODUCTION LOG DATA ANALYSIS FOR REJECT RATE PREDICTION AND WORKLOAD ESTIMATION. , 2018, , .		1
8	Lead time prediction in a flow-shop environment with analytical and machine learning approaches. IFAC-PapersOnLine, 2018, 51, 1029-1034.	0.9	48
9	Lead time prediction using machine learning algorithms: A case study by a semiconductor manufacturer. Procedia CIRP, 2018, 72, 1051-1056.	1.9	87
10	Towards joint optimization of product design, process planning and production planning in multi-product assembly. CIRP Annals - Manufacturing Technology, 2018, 67, 441-446.	3.6	24
11	Cyber-Physical Systems. , 2018, , 1-8.		19
12	Robust production planning and control for multi-stage systems with flexible final assembly lines. International Journal of Production Research, 2017, 55, 3657-3673.	7.5	29
13	Capacity management of modular assembly systems. Journal of Manufacturing Systems, 2017, 43, 88-99.	13.9	24
14	Scheduling and Operator Control in Reconfigurable Assembly Systems. Procedia CIRP, 2017, 63, 459-464.	1.9	9
15	Cyber-physical Manufacturing in the Light of Professor Kanji Ueda's Legacy. Procedia CIRP, 2017, 63, 631-638.	1.9	18
16	Data type definition and handling for supporting interoperability across organizational borders. Journal of Intelligent Manufacturing, 2016, 27, 167-185.	7.3	2
17	A Holistic Approach for Quality Oriented Maintenance Planning Supported by Data Mining Methods. Procedia CIRP, 2016, 57, 259-264.	1.9	11
18	Simulation-based Production Planning and Execution Control for Reconfigurable Assembly Cells. Procedia CIRP, 2016, 57, 445-450.	1.9	15

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19	Complementary Research and Education Opportunitiesâ€"A Comparison of Learning Factory Facilities and Methodologies at TU Wien and MTA SZTAKI. Procedia CIRP, 2016, 54, 47-52.	1.9	14
20	Manufacturing Lead Time Estimation with the Combination of Simulation and Statistical Learning Methods. Procedia CIRP, 2016, 41, 75-80.	1.9	34
21	Decision support solutions for factory and network logistics operations. International Journal of Computer Integrated Manufacturing, 2016, , 1-11.	4.6	5
22	An approach to Determine Simulation Model Complexity. Procedia CIRP, 2016, 52, 257-261.	1.9	16
23	Design and management of reconfigurable assembly lines in the automotive industry. CIRP Annals - Manufacturing Technology, 2016, 65, 441-446.	3.6	23
24	Generic data structure and validation methodology for simulation of manufacturing systems. International Journal of Computer Integrated Manufacturing, 2016, 29, 1272-1286.	4.6	16
25	Advanced predictive-analysis-based decision support for collaborative logistics networks. Supply Chain Management, 2015, 20, 369-388.	6.4	47
26	Cooperative control in production and logistics. Annual Reviews in Control, 2015, 39, 12-29.	7.9	65
27	Supporting multi-level and robust production planning and execution. CIRP Annals - Manufacturing Technology, 2015, 64, 415-418.	3.6	20
28	Cyber-physical production systems: roots from manufacturing science and technology. Automatisierungstechnik, 2015, 63, 766-776.	0.8	37
29	A Solution for Information Management in Logistics Operations of Modern Manufacturing Chains. Procedia CIRP, 2014, 25, 337-344.	1.9	12
30	Low-cost Extension of Information Transparency Throughout the Product Life-cycle via Optical Identification and Quality Indication. Procedia CIRP, 2014, 25, 106-113.	1.9	6
31	Capacity Planning and Resource Allocation in Assembly Systems Consisting of Dedicated and Reconfigurable Lines. Procedia CIRP, 2014, 25, 185-191.	1.9	21
32	Cyber-physical Production Systems: Roots, Expectations and R&D Challenges. Procedia CIRP, 2014, 17, 9-13.	1.9	932
33	Capacity management for assembly systems with dedicated and reconfigurable resources. CIRP Annals - Manufacturing Technology, 2014, 63, 457-460.	3.6	34
34	Cooperative Control in Production and Logistics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4246-4265.	0.4	6
35	The role of OSCâ€based projects in meeting new challenges of educationâ€"concept and exemplification. Computer Applications in Engineering Education, 2013, 21, E141.	3.4	0
36	Methodology and Data-structure for a Uniform System's Specification in Simulation Projects. Procedia CIRP, 2013, 7, 455-460.	1.9	5

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37	Generating alternative process plans for complex parts. CIRP Annals - Manufacturing Technology, 2013, 62, 453-458.	3.6	25
38	Complexity in engineering design and manufacturing. CIRP Annals - Manufacturing Technology, 2012, 61, 793-814.	3.6	450
39	Applying model-reconstruction by exploring MES and PLC data for simulation support of production systems. , 2012, , .		0
40	Matching Demand and System Structure in Reconfigurable Assembly Systems. Procedia CIRP, 2012, 3, 579-584.	1.9	15
41	Design and assessment of quality control loops for stable business processes. CIRP Annals - Manufacturing Technology, 2012, 61, 439-444.	3.6	19
42	Scheduling the Maintenance of Wind Farms for Minimizing Production Loss. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14802-14807.	0.4	16
43	Cooperative and responsive manufacturing enterprises. CIRP Annals - Manufacturing Technology, 2011, 60, 797-820.	3.6	125
44	Engineering education on supplyâ€chain management for students and for employees in industry. Computer Applications in Engineering Education, 2011, 19, 81-88.	3.4	3
45	A system for the detailed scheduling of wind farm maintenance. CIRP Annals - Manufacturing Technology, 2011, 60, 497-501.	3.6	60
46	A survey of applications and requirements of unique identification systems and RFID techniques. Computers in Industry, 2011, 62, 227-252.	9.9	155
47	Enhanced control of complex production structures by tight coupling of the digital and the physical worlds. CIRP Annals - Manufacturing Technology, 2010, 59, 437-440.	3.6	54
48	Digital enterprise solution for integrated production planning and control. Computers in Industry, 2010, 61, 112-126.	9.9	31
49	From tracking operations to IOT-the small business perspective. , 2009, , .		0
50	Agentâ€based framework for preâ€contractual evaluation of participants in projectâ€delivery supplyâ€chains. Assembly Automation, 2009, 29, 137-153.	1.7	13
51	Increased transparency within and beyond organizational borders by novel identifier-based services for enterprises of different size. CIRP Annals - Manufacturing Technology, 2009, 58, 417-420.	3.6	15
52	Value creation and decision-making in sustainable society. CIRP Annals - Manufacturing Technology, 2009, 58, 681-700.	3.6	176
53	Real-time, cooperative enterprises for customised mass production. International Journal of Computer Integrated Manufacturing, 2009, 22, 55-68.	4.6	8
54	Complexity-based modeling of reconfigurable collaborations in production industry. CIRP Annals - Manufacturing Technology, 2008, 57, 445-450.	3.6	45

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55	A coordination mechanism for rolling horizon planning in supply networks. CIRP Annals - Manufacturing Technology, 2008, 57, 455-458.	3.6	25
56	A low-cost perspective in identifier-based services of supply chains. , 2008, , .		0
57	Simulation as one of the core technologies for digital enterprises: assessment of hybrid rescheduling methods. International Journal of Computer Integrated Manufacturing, 2008, 21, 206-214.	4.6	11
58	A Complexity Model for Networks of Collaborating Enterprises. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13833-13838.	0.4	4
59	Complex Adaptive Systems (CAS) Approach to Production Systems and Organisations. , 2008, , 19-24.		3
60	Stability-oriented evaluation of rescheduling strategies, by using simulation. Computers in Industry, 2007, 58, 630-643.	9.9	76
61	Solution Approaches to Real-time Control of Customized Mass Production. CIRP Annals - Manufacturing Technology, 2007, 56, 431-434.	3.6	38
62	Reinforcement learning in a distributed market-based production control system. Advanced Engineering Informatics, 2006, 20, 279-288.	8.0	45
63	From plant and logistics control to multi-enterprise collaboration. Annual Reviews in Control, 2006, 30, 55-68.	7.9	75
64	Agent-Based Systems for Manufacturing. CIRP Annals - Manufacturing Technology, 2006, 55, 697-720.	3.6	551
65	Stochastic Dynamic Production Control by Neurodynamic Programming. CIRP Annals - Manufacturing Technology, 2006, 55, 473-478.	3.6	11
66	Design of complex adaptive systems: Introduction. Advanced Engineering Informatics, 2006, 20, 223-225.	8.0	13
67	Testing and Validation of Deterministic Schedules in a Simulated Stochastic Environment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 449-454.	0.4	0
68	AI and machine learning techniques for managing complexity, changes and uncertainties in manufacturing. Engineering Applications of Artificial Intelligence, 2003, 16, 277-291.	8.1	152
69	Real-Life Scheduling Using Constraint Programming and Simulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 233-238.	0.4	8
70	Constraint Programming Based Support for Production Networks Management. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 13-18.	0.4	2
71	AI AND MACHINE LEARNING TECHNIQUES FOR MANAGING COMPLEXITY, CHANGES AND UNCERTAINTIES IN MANUFACTURING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 119-130.	0.4	12
72	Intelligent Techniques for Managing Complexity, Changes and Uncertainties in Manufacturing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 9-20.	0.4	1

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73	Approaches to Increase the Performance of Agent-Based Production Systems. Lecture Notes in Computer Science, 2001, , 612-621.	1.3	6
74	AI and ML techniques combined with simulation for designing and controlling manufacturing processes and systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 181-186.	0.4	3
75	Satisfying various requirements in different levels and stages of machining using one general ANN-based process model. Journal of Materials Processing Technology, 2000, 107, 228-235.	6.3	29
76	Hierarchy in distributed shop floor control. Computers in Industry, 2000, 43, 123-137.	9.9	152
77	On the Application of Multistrategy Learning and Hybrid AI Approaches in Intelligent Manufacturing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 177-182.	0.4	0
78	A Market Approach to Holonic Manufacturing. CIRP Annals - Manufacturing Technology, 1996, 45, 433-436.	3.6	111
79	A Step towards Intelligent Manufacturing: Modelling and Monitoring of Manufacturing Processes through Artificial Neural Networks. CIRP Annals - Manufacturing Technology, 1993, 42, 485-488.	3.6	112
80	Convergence behaviour of connectionist models in large scale diagnostic problems. , 1992, , 113-122.		6
81	Neural networksâ€"Their applications and perspectives in intelligent machining. Computers in Industry, 1991, 17, 101-119.	9.9	42
82	Multiprocessor systems for connectionist diagnosis of technical processes. Computers in Industry, 1991, 17, 131-145.	9.9	14
83	Concept of a knowledge based diagnostic system for machine tools and manufacturing cells. Computers in Industry, 1990, 15, 95-102.	9.9	11
84	New trends in machine tool monitoring and diagnostics. Robotics and Computer-Integrated Manufacturing, 1988, 4, 457-464.	9.9	10
85	Learning procedures in machine tool monitoring. Computers in Industry, 1986, 7, 53-64.	9.9	27