Smart Manufacturing and Intelligent Manufacturing: A Comparative Review

#	Paper	IF	Citations
106	Production Line Optimization to Minimize Energy Cost and Participate in Demand Response Events. **2021**, 14, 462		4
105	Federated Learning as a Privacy-Providing Machine Learning for Defect Predictions in Smart Manufacturing. **2021**, 5, 20200029		1
104	Parallel Assembly Lines with Heterogeneous Workforce: A Cost-Driven Mathematical Model and Simulated Annealing Approach. **2021**, 99-112		
103	Editorial: intelligent manufacturing systems towards industry 4.0 era. **2021**, 32, 1793-1796		12
102	Big data analytics in manufacturing: a bibliometric analysis of research in the field of business management. 1-29		14
101	Exploring Regional Advanced Manufacturing and Its Driving Factors: A Case Study of the Guangdong-Hong Kong-Macao Greater Bay Area. **2021**, 18,		4
100	A novel performance indicator for the assessment of the learning ability of smart buildings. **2021**, 72, 103054		4
99	Generic Product Lifecycle Model: A Holistic and Adaptable Approach for Multi-Disciplinary ProductBervice Systems. **2021**, 11, 4516		8
98	The Impact of Co-Inventor Networks on Smart Cleantech Innovation: The Case of Montreal Agglomeration. **2021**, 13, 7270		4
97	Understanding the Evolution and Applications of Intelligent Systems via a Tri-X Intelligence (TI) Model. **2021**, 9, 1080		0
96	Intelligent manufacturing in the context of industry 4.0: A case study of siemens industry. **2021**, 1969, 012019		1
95	Regression Approach to a Novel Lateral Flatness Leveling System for Smart Manufacturing. **2021**, 11, 6645		2
94	Implementing Industry 4.0 principles. **2021**, 158, 107379		18
93	Digitalisation and servitisation of machine tools in the era of Industry 4.0: a review. 1-33		9
92	Secure and Privacy-Respecting Documentation for Interactive Manufacturing and Quality Assurance. **2021**, 11, 7339		
91	Productivity Analysis Method based on Manufacturing Big-data using the FOM System in the FOMs Package. **2021**, 30, 259-268		1
90	Reference training system for intelligent manufacturing talent education: platform construction and curriculum development. 1		1

89	Generic Design Methodology for Smart Manufacturing Systems from a Practical Perspective, Part II: Digital Triad Concept and Its Application as a System Reference Model. **2021**, 9, 207	2
88	Machine Learning-Based Predictive Modeling and Control of Lean Manufacturing in Automotive Parts Manufacturing Industry. 1	0
87	Prediction of Belt Drive Faults in Case of Predictive Maintenance in Industry 4.0 Platform. **2021**, 11, 10307	0
86	Transformation towards a Smart Maintenance Factory: The Case of a Vessel Maintenance Depot. **2021**, 9, 267	1
85	Tool wear prediction method based on symmetrized dot pattern and multi-covariance Gaussian process regression. **2021**, 189, 110466	0
84	A Construction Method of Intelligent Manufacturing System under Industry 4.0 Model. **2021**, 2021, 1-10	0
83	Smart Additive Manufacturing: The Path to the Digital Value Chain. **2021**, 9, 88	3
82	Human Expertise Inspired Smart Sensing and Manufacturing. **2021**,	1
81	A survey of application research based on blockchain smart contract. **2022**, 28, 635	8
80	Smart Sustainable Production and Distribution Network Model for City Multi-Floor Manufacturing Clusters. **2022**, 15, 488	1
79	Three-Dimensional Finite Element Modelling of Sheet Metal Forming for the Manufacture of Pipe Components: Symmetry Considerations. **2022**, 14, 228	2
78	Artificial intelligence techniques for implementation of intelligent machining. **2022**, 56, 1947-1955	1
77	Reliable Deep Learning and IoT-Based Monitoring System for Secure Computer Numerical Control Machines Against Cyber-Attacks With Experimental Verification. **2022**, 10, 23186-23197	6
76	Multidisciplinary avenues on the integration of industry 4.0 in the degree of mechanical engineering. **2022**, 1228, 012029	
75	A review of optimization models and applications in robotic manufacturing systems: Industry 4.0 and beyond. **2022**, 2, 100031	2
74	Smart Manufacturing Technologies in Industry-4.0. **2021**,	2
73	Production and operations management for intelligent manufacturing: a systematic literature review. **2022**, 60, 808-846	9
72	3D Printing and Implementation of Digital Twins: Current Trends and Limitations. **2022**, 5, 7	4

71	A neural network approach for wireless spectrum anomaly detection in 5G-unlicensed network. 1	0
70	Towards smart production planning and control; a conceptual framework linking planning environment characteristics with the need for smart production planning and control. **2022**,	0
69	A Review on Additive/Subtractive Hybrid Manufacturing of Directed Energy Deposition (DED) Process. **2022**, 100054	6
68	A Variable-Scale Data Analysis-Based Identification Method for Key Cost Center in Intelligent Manufacturing.. **2022**, 2022, 1897298	
67	Investigate the Influencing Factors of Industrial Design Platform Demand: From the Perspective of Emotional Interaction. **2022**, 13,	
66	Deep learning-based residual control chart for count data. 1-12	1
65	Evaluation of corporate requirements for smart manufacturing systems using predictive analytics. **2022**, 19, 100554	0
64	ESDDNet: Efficient small defect detection network of workpiece surface.	0
63	An adoption-implementation framework of digital green knowledge to improve the performance of digital green innovation practices for industry 5.0. **2022**, 363, 132608	11
62	One step forward for smart chemical process fault detection and diagnosis. **2022**, 164, 107884	0
61	A system-of-systems (SoS) perspective on additive manufacturing decisions for space applications. **2022**,	
60	A powerful tool for near-infrared spectroscopy: synergy adaptive moving window algorithm based on the immune support vector machine. **2022**, 121631	0
59	A systematic method for automated manufacturability analysis of machining parts.	1
58	Digital Twin and Its Implementation in 3D Printing: A Research Review. **2022**, 10, 49-68	
57	Enhancing and securing cyber-physical systems and Industry 4.0 through digital twins: A critical review.	
56	A Study on Gear Defect Detection via Frequency Analysis Based on DNN. **2022**, 10, 659	0
55	Model development for assessing inhibitors impacting Industry 4.0 implementation in Indian manufacturing industries: an integrated ISM-Fuzzy MICMAC approach.	0
54	Edge-to-Cloud IIoT for Condition Monitoring in Manufacturing Systems with Ubiquitous Smart Sensors. **2022**, 22, 5901	1

53	Smart Sustainable Production Management for City Multifloor Manufacturing Clusters: An Energy-Efficient Approach to the Choice of Ceramic Filter Sintering Technology. **2022**, 15, 6443	1
52	Digital twin-enabled machining process modeling. **2022**, 54, 101737	0
51	Hypergraph-based analysis and design of intelligent collaborative manufacturing space. **2022**, 65, 88-103	0
50	Process Digital Twin and Its Application in Petrochemical Industry. **2022**, 15, 308-324	0
49	The role of interoperability of Multi-Agent Systems for IoT applications: A survey on recent advances in smart manufacturing systems.	0
48	Design and Implementation of RPA Based ChatMES System Architecture for Smart Manufacturing. **2022**, 10, 88-92	1
47	Time Reduction in Online Programming An Approach to Hand Guided Teaching for Small Batch Robot Machining. **2023**, 405-414	0
46	Development of China High-Tech Exports Under the Implementation of the Dual Circulation Strategy. **2023**, 33-42	0
45	Industry 5.0: Prospect and retrospect. **2022**, 65, 279-295	15
44	Towards intelligent welding systems from a HCPS perspective: A technology framework and implementation roadmap. **2022**, 65, 244-259	0
43	An Overview of Artificial Intelligence in Product Design for Smart Manufacturing. **2022**,	0
42	Education Sustainability for Intelligent Manufacturing in the Context of the New Generation of Artificial Intelligence. **2022**, 14, 14148	0
41	Mapping Neuroscience in the Field of Education through a Bibliometric Analysis. **2022**, 12, 1454	0
40	The National R&D Landscape of Smart Manufacturing: A Topic Portfolio and Innovation Actors-wise Characteristics. **2022**, 48, 528-537	0
39	Time-based resilience metric for smart manufacturing systems and optimization method with dual-strategy recovery. **2022**, 65, 486-497	0
38	Scientometric analysis and systematic review of smart manufacturing technologies applied to the 3D printing polymer material extrusion system.	0
37	Industry 5.0 and the Circular Economy: Utilizing LCA with Intelligent Products. **2022**, 14, 14847	3
36	New timestamp mark Based energy efficient time synchronization method for wireless sensor networks. **2022**, 18, 155013292211355	0

35	A hybrid model for value-added process analysis of manufacturing value chains.	0
34	Immersive virtual reality application for intelligent manufacturing: Applications and art design. **2022**, 20, 4353-4387	0
33	Deep reinforcement learning in smart manufacturing: A review and prospects. **2023**, 40, 75-101	2
32	Maturity assessment for Industry 5.0: A review of existing maturity models. **2023**, 66, 200-210	2
31	TURİZM ALANINDA ENDÜSTRİ 4.0 VE UYGULAMALARINI KONU ALAN MAKALELERİN BİBLİYOMETRİK ANALİZİ	0
30	Research Priorities and Trends on Bioenergy: Insights from Bibliometric Analysis. **2022**, 19, 15881	0
29	Research and application of equipment intelligent operation and maintenance platform. **2022**, 2369, 012091	0
28	A bibliometric review of progress and trends in food factory design research.	0
27	A big-data-driven matching model based on deep reinforcement learning for cotton blending. 1-19	0
26	Parallel Manufacturing for Industrial Metaverses: A New Paradigm in Smart Manufacturing. **2022**, 9, 2063-2070	5
25	3D Printing of complex structures: Case study of Eiffel Tower. **2022**,	0
24	Smart automation in manufacturing process using industrial internet of things (IIoT) architecture.	0
23	Mapping and visualizing flexible manufacturing system in business and management: a systematic review and future agenda.	0
22	Design and Implementation of Painting and Replacement Automation Robot System in Spindle Line for Smart Manufacturing. **2023**, 14, 1-6	0
21	A Digital Twin-Based Heuristic Multi-Cooperation Scheduling Framework for Smart Manufacturing in IIoT Environment. **2023**, 13, 1440	1
20	Lean Manufacturing Soft Sensors for Automotive Industries. **2023**, 6, 22	0
19	Big Data Life Cycle in Shop-Floor Trends and Challenges. **2023**, 11, 30008-30026	0
18	Analysis of cutting-edge technologies for enterprise information system and management.	0

17	Improving cloud/edge sustainability through artificial intelligence: A systematic review. **2023**, 176, 41-54	0
16	Deep learning technology for construction machinery and robotics. **2023**, 150, 104852	0
15	Hierarchical Model Updating Method for Vector Electric-Propulsion Satellites. **2023**, 13, 4980	0
14	DeFACT in ManuVerse for Parallel Manufacturing: Foundation Models and Parallel Workers in Smart Factories. **2023**, 53, 2188-2199	0
13	Automated Guided Vehicles Challenges for Artificial Intelligence. **2022**,	0
12	Federated Learning for improved prediction of failures in Autonomous Guided Vehicles. **2023**, 68, 101956	0
11	Graph neural network comparison for 2D nesting efficiency estimation.	0
10	Recent Development of Air Gauging in Industry 4.0 Context. **2023**, 23, 2122	1
9	Predictions of Additive Manufacturing Process Parameters and Molten Pool Dimensions with a Physics-Informed Deep Learning Model. **2023**,	1
8	Editorial for the Special Issue on Advanced Manufacturing Technology and Systems. **2023**, 14, 495	0
7	Research and Application of Key Technologies of Intelligent Manufacturing Based on 5G Vehicle. **2023**, 920-928	0
6	Artificial Intelligence Based Robotic Automation of Manual Assembly Tasks for Intelligent Manufacturing. **2023**, 137-148	0
5	How to Measure Stress in Smart and Intelligent Manufacturing Systems: A Systematic Review. **2023**, 11, 167	0
4	?????????????????????: ?????????????(PIMRI). **2023**, 24, 417-432	0
3	Industry 4.0 and Sustainability in Through Life Smart Manufacturing. **2022**,	0
2	Implementation of a Hybrid Intelligence System Enabling the Effectiveness Assessment of Interaction Channels Use in HMI. **2023**, 23, 3826	0
1	A study on the barriers that impact the adoption of Industry 4.0 in the context of Brazilian companies.	0