## CITATION REPORT List of articles citing

Industrial automation based on cyber-physical systems technologies: Prototype implementations and challe

DOI: 10.1016/j.compind.2015.08.004 Computers in Industry, 2016, 81, 11-25.

Source: https://exaly.com/paper-pdf/65724599/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
443	Development of a prototype Cyber Physical Production System with help of Smart-M3. <b>2016</b> ,		5
442	Cyber physical systems based on cloud computing and internet of things for energy efficiency. <b>2016</b> ,		1
441	Emerging ICT concepts for smart, safe and sustainable industrial systems. <i>Computers in Industry</i> , <b>2016</b> , 81, 1-10	11.6	45
440	. <b>2016</b> , 104, 1086-1101		240
439	Planning and Developing Cyber-physical Assembly Systems by Connecting Virtual and Real Worlds. <b>2016</b> , 52, 35-40		10
438	Realising Digital Connectivity by Using Interdependencies within a Production Process. <b>2016</b> , 52, 80-83		2
437	Adaptive steering of cyber-physical systems with atomic complex event processing services. <b>2016</b> ,		2
436	Dynamic Service Capacity and Demand Matching in a Holonic Public Transport System. <b>2016</b> , 573-589		4
435	Building a Robotic Cyber-Physical Production Component. <b>2016</b> , 295-305		3
434	Industry 4.0 and Cloud Manufacturing: A Comparative Analysis. 2017, 139,		160
433	Development of an ontology-driven, component based framework for the implementation of adaptiveness in allellyfish-type simulation model. <b>2017</b> , 9, 361-374		7
432	A framework for Big Data driven product lifecycle management. <b>2017</b> , 159, 229-240		117
431	Engineering of Next Generation Cyber-Physical Automation System Architectures. <b>2017</b> , 185-206		9
430	SD-CPS: Taming the challenges of Cyber-Physical Systems with a Software-Defined approach. <b>2017</b> ,		10
429	Digital design and manufacturing of wood head golf club in a cyber physical environment. <b>2017</b> , 117, 648-671		2
428	Industrial Cyberphysical Systems: A Backbone of the Fourth Industrial Revolution. 2017, 11, 6-16		179
427	Product Line Engineering of Monitoring Functionality in Industrial Cyber-Physical Systems. <b>2017</b> ,		7

426	A configurable partial-order planning approach for field level operation strategies of PLC-based industry 4.0 automated manufacturing systems. <b>2017</b> , 66, 128-144	17
425	Interoperability for Industrial Cyber-Physical Systems: An Approach for Legacy Systems. <b>2017</b> , 13, 3370-3378	84
424	Patterns for the Industrial Internet / Industrie 4.0. <b>2017</b> ,	2
423	Reprint of Mitigating risks of perishable products in the cyber-physical systems based on the extended MRP model <b>2017</b> , 194, 113-125	5
422	An Embedded Database Technology Perspective in Cyber-physical Production Systems. <b>2017</b> , 11, 830-837	15
421	Capability Matchmaking Procedure to Support Rapid Configuration and Re-configuration of Production Systems. <b>2017</b> , 11, 1053-1060	22
420	Evaluation of Interoperability between Automation Systems using Multi-criteria Methods. 2017, 11, 1837-184	<b>5</b> 10
419	Mitigating risks of perishable products in the cyber-physical systems based on the extended MRP model. <b>2017</b> , 193, 51-62	48
418	Choreography in the embedded systems domain: A systematic literature review. 2017, 91, 82-101	10
417	Agent and Cyber-Physical System Based Self-Organizing and Self-Adaptive Intelligent Shopfloor. <b>2017</b> , 13, 737-747	162
416	A communicating object approach for smart logistics and safety issues in warehouses. 2017, 25, 53-67	26
415	Key Contributing Factors to the Acceptance of Agents in Industrial Environments. <b>2017</b> , 13, 696-703	37
414	Data-driven business model a methodology to develop smart services. 2017,	8
413	Integration of a digital twin as human representation in a scheduling procedure of a cyber-physical production system. <b>2017</b> ,	29
412	Specification and design of an industrial manufacturing middleware. 2017,	7
411	Cyber Physical System (CPS)-Based Industry 4.0: A Survey. <b>2017</b> , 02, 1750014	84
410	Connecting web-based IoT devices to a cloud-based manufacturing platform. 2017,	10
409	A novel methodology for retrofitting CNC machines based on the context of industry 4.0. <b>2017</b> ,	10

408	Recommended architecture for car parking management system based on cyber-physical system. <b>2017</b> ,	5
407	A model-based testing framework with reduced set of test cases for programmable controllers. <b>2017</b> ,	5
406	A framework to handle big data for cyber-physical systems. <b>2017</b> ,	1
405	Evaluation of migration scenarios towards cyber-physical production systems using SysML. <b>2017</b> ,	3
404	Human-centered application using cyber-physical production system. 2017,	7
403	Augmented Reality in Warehouse Operations: Opportunities and Barriers. 2017, 50, 12979-12984	50
402	Intelligent property support for cyber-physical product system modeling. 2017,	5
401	Agent-based modeling and simulation of a small scale cyber-physical system using NetLogo. <b>2017</b> ,	1
400	Procedural abduction as enabler of smart operation of cyber-physical systems: Theoretical foundations. <b>2017</b> ,	O
399	System reconfiguration of modular production units using a SOA-based control structure. <b>2017</b> ,	5
398	Current status of software development in industrial practice: Key results of a large-scale questionnaire. <b>2017</b> ,	3
397	An architecture for implementing private local automation clouds built by CPS. 2017,	12
396	Value Co-Creative Manufacturing with IoT-Based Smart Factory for Mass Customization. <b>2017</b> , 11, 509-518	13
395	Concepts for 3D Printing-Based Self-Replicating Robot Command and Coordination Techniques. <b>2017</b> , 5, 12	7
394	Integration of Sensors, Controllers and Instruments Using a Novel OPC Architecture. 2017, 17,	18
393	SLAE-CPS: Smart Lean Automation Engine Enabled by Cyber-Physical Systems Technologies. <b>2017</b> , 17,	40
392	Bibliography. <b>2017</b> , 203-231	
391	Virtual Prototyping and Validation of Cpps within a New Software Framework. <b>2017</b> , 5, 10	4

390	Cyber-Physical Logistics System for Physical Internet. <b>2018</b> , 303-316	3
389	Intelligent Devices in a Decentralized Production System Concept. <b>2018</b> , 67, 116-121	8
388	Methodology for the model driven development of service oriented plant controls. 2018, 67, 173-178	6
387	Semantic multi-agent system to assist business integration: An application on supplier selection for shipbuilding yards. <i>Computers in Industry</i> , <b>2018</b> , 96, 10-26	5
386	Employing Multi-Objective Search to Enhance Reactive Test Case Generation and Prioritization for Testing Industrial Cyber-Physical Systems. <b>2018</b> , 14, 1055-1066	14
385	Distributed Dynamic Scheduling for Cyber-Physical Production Systems Based on a Multi-Agent System. <b>2018</b> , 6, 1855-1869	38
384	Model continuity in cyber-physical systems: A control-centered methodology based on agents. <b>2018</b> , 83, 93-107	18
383	IoT-based production logistics and supply chain system [Part 2. <b>2018</b> , 118, 96-125	49
382	A comprehensive survey of ubiquitous manufacturing research. <b>2018</b> , 56, 604-628	57
381	A critical investigation of Industry 4.0 in manufacturing: theoretical operationalisation framework. <b>2018</b> , 29, 633-644	219
380	Adoption of Industry 4.0 Technologies in Supply Chains. 2018, 303-319	9
379	Innovation and Supply Chain Management. 2018,	6
378	Evaluating challenges to Industry 4.0 initiatives for supply chain sustainability in emerging economies. <b>2018</b> , 117, 168-179	326
377	Engineering modeling for cyber physical systems. 2018,	2
376	Design and application of Internet of things-based warehouse management system for smart logistics. <b>2018</b> , 56, 2753-2768	145
375	Utilizing the Internet of Things (IoT) Technologies in the Implementation of Industry 4.0. <b>2018</b> , 798-808	5
374	Data and Decision Intelligence for Human-in-the-Loop Cyber-Physical Systems: Reference Model, Recent Progresses and Challenges. <b>2018</b> , 90, 1167-1178	11
373	Latest Advancement in CPS and IoT Applications. 2018, 33-61	11

372	Model-Based Personalized Visualization System for Monitoring Evolving Industrial Cyber-Physical System. <b>2018</b> ,	1
371	Contextual Knowledge Content Driving for Model of Cyber Physical System. 2018,	5
370	An Effective Security Requirements Engineering Framework for Cyber-Physical Systems. <b>2018</b> , 6, 65	24
369	A Case Study on Knowledge Driven Code Generation for Software-Defined Industrial Cyber-Physical Systems. <b>2018</b> ,	1
368	An Architecture for Dependable Connectivity in OSGi-Enabled Dynamic Distributed Systems. 2018,	
367	Solving the Job-Shop Scheduling Problem in the Industry 4.0 Era. <b>2018</b> , 6, 107	48
366	A Virtual Model of Manufacturing System Based on Hybrid Automata. 2018,	
365	Self Learning in Flexible Manufacturing Units: A Reinforcement Learning Approach. 2018,	6
364	An Executable Capability Concept in Formal Resource Descriptions. 2018, 51, 102-107	9
363	A cyber-physical context-aware system for coordinating human-robot collaboration. <b>2018</b> , 72, 27-32	9
362	Potential of a Multi-Agent System Approach for Production Control in Smart Factories. <b>2018</b> , 51, 1459-1464	20
361	Reconstruction of Cyber and Physical Software Using Novel Spread Method. <b>2018</b> , 322, 052010	
360	Intelligent Content in System Level Model of Industrial Cyber Physical System. 2018,	2
359	AirborneCPS: A Simulator for Functional Dependencies in Cyber Physical Systems: A Traffic Collision Avoidance System Implementation. <b>2018</b> ,	O
358	Compositional Engineering Frameworks for Development of Smart Cyber-Physical Systems: A Critical Survey of the Current State of Progression. <b>2018</b> ,	1
357	Identifying Promising Application Areas for Cyber-Physical and Complex Event Processing in Logistics Practice. <b>2018</b> , 2, 23	
356	Cyber-Physical System for Industrial Control Automation Based on the Holonic Approach and the IEC 61499 Standard. <b>2018</b> ,	7
355	Contextual Modeling of Engineering Structures Using Organized Content. 2018,	1

354	A Joining Procedure and Synchronization for TSCH-RPL Wireless Sensor Networks. 2018, 18,		16
353	A Survey on Industrial Internet of Things: A Cyber-Physical Systems Perspective <b>2018</b> , 6,		203
352	A Standards and Technology Roadmap for Scalable Distributed Manufacturing Systems. 2018,		5
351	Modeling of Cyber-Physical Systems and Digital Twin Based on Edge Computing, Fog Computing and Cloud Computing Towards Smart Manufacturing. <b>2018</b> ,		25
350	An Information Processing Framework Facilitating the Implementation of Condition Monitoring in Cyber-Physical Systems. <b>2018</b> , 882, 75-80		
349	Enabling Technologies for Operator 4.0: A Survey. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1650	2.6	82
348	Performance Assessment Of The Integration Between Industrial Agents And Low-Level Automation Functions. <b>2018</b> ,		5
347	Towards a Framework for Interoperable and Interconnected CPS-populated Systems for Proactive Maintenance. <b>2018</b> ,		1
346	Data scientist under the Da.Re perspective: analysis of training offers, skills and challenges. 2018,		2
345	Content Driven Engineering Model System for Cyber Physical Systems. 2018,		Ο
344	Data-driven and Event-driven Integration Architecture for Plant-wide Industrial Process Monitoring and Control. <b>2018</b> ,		3
343	. 2018,		5
342	Development of the ECAT Preprocessor with the Trust Communication Approach. 2018, 2018, 1-16		6
341	An agent-based collaborative information processing system for mixed reality applications (Part A: Agent-aware computing. <b>2018</b> ,		
340	A distributed control architecture for a reconfigurable manufacturing plant. 2018,		6
339	Towards a decision support approach for selecting physical objects in collaborative supply chain processes for cyber physical system-transformation. <b>2018</b> ,		2
338	Analysis of the driving and dependence power of barriers to adopt industry 4.0 in Indian manufacturing industry. <i>Computers in Industry</i> , <b>2018</b> , 101, 107-119	11.6	223
337	Petri nets methodology for the design and control of migration processes towards industry 4.0. <b>2018</b> ,		1

336	Long-Term Event Processing over Data Streams in Cyber-Physical Systems. <b>2018</b> , 2, 1-23	2
335	Image processing based anomaly detection approach for synchronous movements in cyber-physical systems. <b>2018</b> ,	2
334	WiP: An Architecture for Disruption Management in Smart Manufacturing. 2018,	10
333	Agent-Based Decision-Information System Supporting Effective Resource Management of Companies. <b>2018</b> , 309-318	1
332	Engineering Model System Definition Using Human Initiatives. 2018,	1
331	Quo Vadis Industry 4.0: An Overview Based on Scientific Publications Analytics. 2018,	4
330	Future developments in cyber risk assessment for the internet of things. <i>Computers in Industry</i> , <b>2018</b> , 102, 14-22	58
329	Method of tasks and resources matching and analysis for cyber-physical production system. <b>2018</b> , 10, 168781401877782	4
328	Concept of the asset administration shell as a software-defined system. 2018,	1
327	Environment, People, and Time as Factors in the Internet of Things Technical Revolution. 2018, 51-76	
326	A Framework for Smart Production-Logistics Systems Based on CPS and Industrial IoT. <b>2018</b> , 14, 4019-4032	144
325	An overview of current technologies and emerging trends in factory automation. <b>2019</b> , 57, 5047-5067	35
324	Internet of things: new classification model of intelligence. <b>2019</b> , 10, 2731-2744	5
323	Key Directions for Industrial Agent Based Cyber-Physical Production Systems. <b>2019</b> ,	20
322	Designing a Cyber Physical System Prototype for the Leaching Process in Producing High-Purity Materials. <b>2019</b> , 88-98	
321	Self-Adaptation Applied to MQTT via a Generic Autonomic Management Framework. 2019,	1
320	Modernization stages of the Industry 3.0 company and projection route for the Industry 4.0 virtual factory. <b>2019</b> , 537, 032005	2
319	Automatic extraction and integration of behavioural indicators of malware for protection of cyberphysical networks. <b>2019</b> , 101, 1247-1258	9

318	Modular and Self-organized Conveyor System Using Multi-agent Systems. <b>2019</b> , 259-263	2
317	A Rule-Based Approach Founded on Description Logics for Industry 4.0 Smart Factories. <b>2019</b> , 15, 4888-4899	9
316	Industrial Challenges when Planning and Preparing Collaborative and Intelligent Automation Systems for Final Assembly Stations. <b>2019</b> ,	5
315	A Perceptive Interface for Intelligent Cyber Enterprises. <b>2019</b> , 19,	5
314	Components and technologies of system projection of digital and smart factories of the Industry 4.0. <b>2019</b> , 537, 032014	2
313	Control as a Service: A Microservice Approach to Industry 4.0. <b>2019</b> ,	5
312	Cyber Physical System in Context with System Level Engineering Model. <b>2019</b> ,	1
311	Towards Structured Performance Analysis of Industry 4.0 Workflow Automation Resources. 2019,	3
310	Empowering Humans in a Cyber-Physical Production System: Human-in-the-loop Perspective. 2019,	4
309	The effect of operational policies on production systems robustness: an aerospace case study. <b>2019</b> , 81, 1337-1341	5
308	Proposal of a user-centred approach for CPS design: pillbox case study. <b>2019</b> , 51, 196-201	7
307	Identification of interactions between digital technologies in manufacturing systems. <b>2019</b> , 81, 115-120	3
306	Cyber-physical modeling and simulation: A reference architecture for designing demonstrators for industrial cyber-physical systems. <b>2019</b> , 84, 257-264	14
305	Intelligent decision support for maintenance: an overview and future trends. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2019</b> , 32, 936-959	29
304	Providing industry 4.0 technologies: The case of a production technology cluster. <b>2019</b> , 30, 100355	39
303	Edge-cloud orchestration driven industrial smart product-service systems solution design based on CPS and IIoT. <b>2019</b> , 42, 100984	54
302	Implementation of a Large-Scale Platform for Cyber-Physical System Real-Time Monitoring. <b>2019</b> , 7, 52455-52	24.66
301	Position paper on the challenges posed by modern applications to cyber-physical systems theory. <b>2019</b> , 34, 147-165	13

300	Development capabilities for smart products. <b>2019</b> , 68, 727-750	61
299	Flexible job-shop scheduling with learning and forgetting effect by Multi-Agent System. <b>2019</b> , 521-534	3
298	Barriers of embedding big data solutions in smart factories: insights from SAP consultants. <b>2019</b> , 119, 1147-1164	8
297	From a literature review to a conceptual framework of enablers for smart manufacturing control. <b>2019</b> , 104, 517-533	26
296	System Structure and Network Computing Architecture of Petrochemical Cyber-Physical System: Overview and Perspective. <b>2019</b> , 97, 2176-2188	0
295	Cyber-Physical System Framework for Measurement and Analysis of Physical Activities. <b>2019</b> , 8, 248	9
294	Benefits of Real-Time Monitoring and Process Mining in a Digitized Construction Supply Chain. <b>2019</b> , 411-435	5
293	Designing Smart Logistics Processes Using Cyber-Physical Systems and Complex Event Processing. <b>2019</b> , 323-336	2
292	A Literature Survey on Open Platform Communications (OPC) Applied to Advanced Industrial Environments. <b>2019</b> , 8, 510	42
291	Industry 4.0 and Engineering for a Sustainable Future. <b>2019</b> ,	8
<b>29</b> 0	Mobilit in Zeiten der Ver der ung. <b>2019</b> ,	3
289	System architectures for Industrie 4.0 applications. <b>2019</b> , 13, 247-257	40
288	Industrial Communication Networks and the Future of Industrial Automation. 2019,	1
287	Industrial Cyber-Physical System Evolution Detection and Alert Generation. <i>Applied Sciences</i> (Switzerland), <b>2019</b> , 9, 1586	4
286	Security Challenges in the Industry 4.0 Era. <b>2019</b> , 117-136	7
285	Digital technologies in airport ground operations. <b>2019</b> , 20, 1-30	12
284	Applications of Digital Technologies in Sustainable Logistics and Supply Chain Management. <b>2019</b> , 235-263	2
283	A Comprehensive Technological Survey on the Dependable Self-Management CPS: From Self-Adaptive Architecture to Self-Management Strategies. <b>2019</b> , 19,	5

282	A Computational Framework for Procedural Abduction Done by Smart Cyber-Physical Systems. <b>2019</b> , 3, 1	6
281	Connecting circular economy and industry 4.0. <b>2019</b> , 49, 98-113	179
280	Energy Saving by Blockchaining Maintenance. <b>2019</b> , 2018, 63-88	2
279	Mitigating Attacks With Nonlinear Dynamics on Actuators in Cyber-Physical Mechatronic Systems. <b>2019</b> , 15, 4845-4856	9
278	Digital Twin, Cyber <b>P</b> hysical System, and Internet of Things. <b>2019</b> , 243-256	1
277	Agent-Oriented Engineering for Cyber-Physical Systems. <b>2019</b> , 93-102	
276	Innovative Logistics Services and Sustainable Lifestyles. <b>2019</b> ,	0
275	Industry 4.0: key findings and analysis from the literature arena. <b>2019</b> , 26, 2514-2542	31
274	. 2019,	
273	Cyber and Physical Systems Topology for the Industry 4.0 Smart Factory. <b>2019</b> , 582, 012010	
272	Potential Game based Distributed Optimization of Modular Production Units. 2019,	2
271	IASelect: Finding Best-fit Agent Practices in Industrial CPS Using Graph Databases. 2019,	4
270	Organization of information exchange between digital companies of Industry 4.0. <b>2019</b> , 510, 012021	1
269	From Industry 3.0 to Industry 4.0: production modernization and creation of innovative digital companies. <b>2019</b> , 560, 012206	6
268	CAP: Context-Aware Programming for Cyber Physical Systems. 2019,	0
267	Integration Challenges for the Deployment of a Multi-Stage Zero-Defect Manufacturing Architecture. <b>2019</b> ,	6
266	. 2019,	2
265	Critical Infrastructure for Industry 4 Laboratories and Learning Factories in Academia. 2019,	1

264	Self-Optimization in Smart Production Systems using Distributed Reinforcement Learning. 2019,	2
263	Mitigating the Effects of Bottlenecks in Wagon Manufacturing. <b>2019</b> , 39, 1010-1019	2
262	Digital Twin in Industry 4.0: Technologies, Applications and Challenges. 2019,	32
261	Implementation of capability matchmaking software facilitating faster production system design and reconfiguration planning. <b>2019</b> , 53, 261-270	8
260	A method for applying Industry 4.0 in Small Enterprises. <b>2019</b> , 52, 439-444	9
259	Simulation-based Analysis of the Interaction of a Physical and a Digital Twin in a Cyber-Physical Production System. <b>2019</b> , 52, 1331-1336	8
258	Adaptive Task Offloading Auction for Industrial CPS in Mobile Edge Computing. 2019, 7, 169055-169065	15
257	Intellectual Content Driving for Model of Industrial Cyber Physical System. 2019,	1
256	A comprehensive review of big data analytics throughout product lifecycle to support sustainable smart manufacturing: A framework, challenges and future research directions. <b>2019</b> , 210, 1343-1365	176
255	Industrial Automation. <b>2019</b> , 249-256	O
254	The development of an ontology for describing the capabilities of manufacturing resources. <b>2019</b> , 30, 959-978	64
253	Cyber-Physical Manufacturing Systems. <b>2019</b> , 2, 427-443	10
252	Intelligent sustainable supplier selection using multi-agent technology: Theory and application for Industry 4.0 supply chains. <b>2019</b> , 127, 588-600	84
251	Bibliography. <b>2019</b> , 339-347	
250	Smart manufacturing: Characteristics, technologies and enabling factors. <b>2019</b> , 233, 1342-1361	201
249	Industrial wearable system: the human-centric empowering technology in Industry 4.0. <b>2019</b> , 30, 2853-2869	69
248	Socio-Cyber-Physical Systems Alternative for Traditional Manufacturing Structures. <b>2020</b> , 15-24	3

246	Impacts of Industry 4.0 technologies on Lean principles. <b>2020</b> , 58, 1644-1661	131
245	Context-Aware Service Orchestration in Smart Environments. <b>2020</b> , 35-45	1
244	Value Based and Intelligent Asset Management. <b>2020</b> ,	4
243	Future developments in standardisation of cyber risk in the Internet of Things (IoT). <b>2020</b> , 2, 1	35
242	Cyber physical ecommerce logistics system: An implementation case in Hong Kong. <b>2020</b> , 139, 106170	21
241	Cantilevered Piezoelectric Micro Generator Design Issues and Application to the Mining Locomotive. <i>Energies</i> , <b>2020</b> , 13, 63	2
240	A six-layer architecture for the digital twin: a manufacturing case study implementation. <b>2020</b> , 31, 1383-1402	62
239	Big data driven Hierarchical Digital Twin Predictive Remanufacturing paradigm: Architecture, control mechanism, application scenario and benefits. <b>2020</b> , 248, 119299	35
238	Enhancing technology transfer through entrepreneurial development: practices from innovation spaces. <b>2020</b> , 45, 1655-1689	12
237	A Roadmap to Industry 4.0: Smart Production, Sharp Business and Sustainable Development. <b>2020</b> ,	25
236	. <b>2020</b> , 14, 18-32	29
235	A Middleware Platform for Intelligent Automation: An Industrial Prototype Implementation.  Computers in Industry, <b>2020</b> , 123, 103329	16
234	Organized Driving Intellectual Content to Assist Situation Recognition. 2020,	
233	Modularized design for cooperative control of cyber-physical systems with disturbances and general cooperative targets. <b>2020</b> , 357, 10799-10809	1
232	A Survey on the Usage of Blockchain Technology for Cyber-Threats in the Context of Industry 4.0. <b>2020</b> , 12, 9179	24
231	Products of the Industry 4.0 competence centers. <b>2020</b> , 734, 012043	
230	Cyber risk at the edge: current and future trends on cyber risk analytics and artificial intelligence in the industrial internet of things and industry 4.0 supply chains. <b>2020</b> , 3,	30
229	Situation-Awareness in Model of Cyber Physical System. <b>2020</b> ,	O

228	. <b>2020</b> , 8, 134233-134245	2
227	Industry 4.0 Technologies in Flexible Manufacturing for Sustainable Organizational Value: Reflections from a Multiple Case Study of Italian Manufacturers. <b>2020</b> , 1	30
226	Microservice Orchestration for Process Control in Industry 4.0. <b>2020</b> ,	3
225	Artificial intelligence and machine learning in dynamic cyber risk analytics at the edge. <b>2020</b> , 2, 1	29
224	Quo Vadis Industry 4.0? Position, Trends, and Challenges. <b>2020</b> , 1, 298-310	11
223	Early validation of cyberphysical space systems via multi-concerns integration. <b>2020</b> , 170, 110742	4
222	Monitoring and Detection of Malicious Adversarial Zero Dynamics Attacks in Cyber-Physical Systems. <b>2020</b> ,	1
221	. 2020,	О
220	Artificial intelligence in cyber physical systems. <b>2020</b> , 36, 1-14	31
219	Critical Success Factors of Industry 4.0 in Automotive Manufacturing Industry. <b>2020</b> , 1-15	9
218	Architectural Issues in Implementing a Distributed Control System for an Industry 4.0 Prototype. <b>2020</b> ,	
217	Critical success factors in implementing Industry 4.0 from an organisational point of view: a literature analysis. <b>2020</b> , 12, 273	1
216	GRASP-based Feature Selection for Intrusion Detection in CPS Perception Layer. 2020,	3
215	Modeling and visualization of the Industry 4.0 cyber and physical productions. <b>2020</b> , 734, 012116	
214	The Digital Shadow: Developing a universal model for the automated optimization of cyber-physical production systems based on real-time data. <b>2020</b> , 93, 304-310	2
213	About some issues of developing Digital Twins for the intelligent process control in quarries. <b>2020</b> , 176, 3210-3216	3
212	Fully Printed Flexible Heat Flow Sensors and their Utilization toward Heat Generation Monitoring for People and Machineries. <b>2020</b> , 6, 2000691	2
211	Overview of Energy Management and Leakage Control Systems for Smart Water Grids and Digital Water. <b>2020</b> , 1, 134-155	8

210	Cyber-Physical Systems in the Built Environment. <b>2020</b> ,		4
209	Integration of Industry 4.0 Related Technologies in Construction Industry: A Framework of Cyber-Physical System. <b>2020</b> , 8, 122908-122922		46
208	Cyber-physical systems for performance monitoring in production intralogistics. <b>2020</b> , 142, 106333		19
207	Impeding challenges on industry 4.0 in circular economy: Palm oil industry in Malaysia. <b>2020</b> , 123, 105052	2	41
206	Learning behavioral models by recurrent neural networks with discrete latent representations with application to a flexible industrial conveyor. <i>Computers in Industry</i> , <b>2020</b> , 122, 103263	11.6	3
205	Digitalization of the World Economy: Performance Evaluation of Introducing Cyber-Physical Systems. <b>2020</b> ,		1
204	Intelligent vision-based online inspection system of screw-fastening operations in light-gauge steel frame manufacturing. <b>2020</b> , 109, 645-657		10
203	A generic tri-model-based approach for product-level digital twin development in a smart manufacturing environment. <b>2020</b> , 64, 101958		50
202	Cloud-Based Industrial Cyber <b>P</b> hysical System for Data-Driven Reasoning: A Review and Use Case on an Industry 4.0 Pilot Line. <b>2020</b> , 16, 5975-5984		39
201	Production scheduling in the context of Industry 4.0: review and trends. <b>2020</b> , 58, 5401-5431		39
200	Web-based digital twin modeling and remote control of cyber-physical production systems. <b>2020</b> , 64, 101956		54
199	A Decision Support System for rapid ramp-up of industry 4.0 enabled production systems. <i>Computers in Industry</i> , <b>2020</b> , 116, 103190	11.6	9
198	Safe and Policy Oriented Secure Android-Based Industrial Embedded Control System. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2796	2.6	4
197	Cyber physical system-enabled synchronization mechanism for pick-and-sort ecommerce order fulfilment. <i>Computers in Industry</i> , <b>2020</b> , 118, 103220	11.6	8
196	Multi-Agent Systems and Complex Networks: Review and Applications in Systems Engineering. <b>2020</b> , 8, 312		27
195	Simulated-based methodology for the interface configuration of cyber-physical production systems. <b>2021</b> , 59, 5388-5403		5
194	A conceptual model of entrepreneurial competencies needed to utilise technologies of Industry 4.0. <b>2021</b> , 22, 56-67		4
193	Evolutions and Eevolutions and a conceptual framework. <b>2021</b> , 32, 213-227		34

192	Impact of Industry 4.0 on supply chain performance. <b>2021</b> , 32, 63-81	110
191	CPS-Based Self-Adaptive Collaborative Control for Smart Production-Logistics Systems. <b>2021</b> , 51, 188-198	31
190	Analyzing manufacturing strategies and Industry 4.0 supplier performance relationships from a resource-based perspective. <b>2021</b> , 28, 1697-1716	22
189	Industry 4.0 Ethallenges to implement circular economy. <b>2021</b> , 28, 1717-1739	64
188	A big data-driven framework for sustainable and smart additive manufacturing. <b>2021</b> , 67, 102026	66
187	Industry 4.0: defining the research agenda. <b>2021</b> , 28, 1858-1882	28
186	Interdisciplinary effects of technical debt in companies with mechatronic products <b>(la qualitative study. 2021, 171, 110809</b>	4
185	Intelligent physical systems for strategic planning and management of enterprise information. <b>2021</b> , 14, 2501-2510	
184	. <b>2021</b> , 17, 2295-2306	4
183	Situation-aware manufacturing systems for capturing and handling disruptions. <b>2021</b> , 58, 365-383	2
182	Agent-based Distributed Data Analysis in Industrial Cyber-Physical Systems. 2021, 1-1	1
181	Characteristics of Adaptable Control of Production Systems and the Role of Self-organization Towards Smart Manufacturing. <b>2021</b> , 39-50	O
180	A Conceptual Approximation Toward Occupational Safety and Health Within the Servitized Industry 4.0. <b>2021</b> , 37-48	
179	Codesign of Architecture, Control and Scheduling of Modular Cyber-Physical Production Systems for Design Space Exploration. <b>2021</b> , 1-1	1
178	Megatrends and Trends Shaping Supply Chain Innovation. <b>2021</b> , 3-34	4
177	Cyber-Physical Systems: A Pilot Adoption in Manufacturing. <b>2021</b> , 205-223	
176	A decision-making framework for dynamic scheduling of cyber-physical production systems based on digital twins. <b>2021</b> , 51, 357-373	28
175	Capability matchmaking software for rapid production system design and reconfiguration planning. <b>2021</b> , 97, 435-440	5

## (2021-2021)

174	Design and Installation of an Agent-controlled Cyber Physical Production System Using the Example of a Beverage Bottling Plant. <b>2021</b> , 1-1	2
173	Anarchic manufacturing: implementing fully distributed control and planning in assembly. <b>2021</b> , 9, 56-80	2
172	Prioritization of strategies to overcome the barriers in Industry 4.0: a hybrid MCDM approach. <b>2021</b> , 58, 711-750	7
171	Challenges of Agricultural 4.0 Supply Chains. <b>2021</b> , 73-79	
170	Integration of Cutting-Edge Interoperability Approaches in Cyber-Physical Production Systems and Industry 4.0. <b>2021</b> , 144-172	3
169	Augmented reality and digital twin system for interaction with construction machinery. 1-12	17
168	Identification of cause and effect relationships among barriers of Industry 4.0 using decision-making trial and evaluation laboratory method. <b>2021</b> , ahead-of-print,	15
167	Modern divulge in production optimization: an implementation framework of LARG manufacturing with Industry 4.0. <b>2021</b> , ahead-of-print,	4
166	The challenges, approaches, and used techniques of CPS for manufacturing in Industry 4.0: a literature review. <b>2021</b> , 113, 2395-2412	22
165	Knowledge-Based Design Guidance System for Cloud-Based Decision Support in the Design of Complex Engineered Systems. <b>2021</b> , 143,	3
164	Recommendation of Best Practices for Industrial Agent Systems based on the IEEE 2660.1 Standard. <b>2021</b> ,	3
163	A 70-Year Industrial Electronics Society Evolution Through Industrial Revolutions: The Rise and Flourishing of Information and Communication Technologies. <b>2021</b> , 15, 115-126	9
162	Artificial Intelligence and the Internet of Things in Industry 4.0. <b>2021</b> , 3, 329-338	5
161	Mobile Collectors for Opportunistic Internet of Things in Smart City Environment with Wireless Power Transfer. <b>2021</b> , 10, 697	7
160	Smart Products in Livestock Farming-An Empirical Study on the Attitudes of German Farmers. <b>2021</b> , 11,	2
159	A Connective Framework to Support the Lifecycle of Cyber <b>P</b> hysical Production Systems. <b>2021</b> , 109, 568-581	7
158	Industry 4.0 smart reconfigurable manufacturing machines. <b>2021</b> , 59, 481-506	47
157	Intelligent Buildings in Smart Grids: A Survey on Security and Privacy Issues Related to Energy Management. <i>Energies</i> , <b>2021</b> , 14, 2733	1 4

156	Permutation entropy based detection scheme of replay attacks in industrial cyber-physical systems. <b>2021</b> , 358, 4058-4076		4
155	SMT-Based Deployment Calculation for IEC 61499 Control Applications. <b>2021</b> ,		O
154	Technologies and applications of Industry 4.0: insights from network analytics. 1-23		4
153	Digital twins: artificial intelligence and the IoT cyber-physical systems in Industry 4.0. 1		9
152	Decision support system for street-road network objects repair. <b>2021</b> , 1159, 012025		1
151	Towards an Understanding of the Behavioral Intentions and Actual Use of Smart Products among German Farmers. <b>2021</b> , 13, 6666		1
150	Readiness of Polish Industrial Enterprises for the Industry 4.0 Revolution. 2021, 10, 214		2
149	Sustainable space for a sustainable Earth? Circular economy insights from the space sector. <b>2021</b> , 289, 112511		6
148	Evaluation of SOA-Based Web Services and Microservices Architecture Using Complexity Metrics. <b>2021</b> , 2, 1		3
147	Electric drives as fog nodes in a fog computing-based industrial use case.		O
146	Towards Security Mechanisms for an Industrial Microservice-Oriented Architecture. 2021,		1
145	A road map for planning-deploying machine vision artifacts in the context of industry 4.0. 1-14		2
144	Decentralized learning of energy optimal production policies using PLC-informed reinforcement learning. <b>2021</b> , 152, 107382		2
143	Exploring barriers to smart and sustainable circular economy: The case of an automotive eco-cluster. <b>2021</b> , 314, 127920		12
142	Modelling and platform application of the behaviour of a cyber physical production system. <i>International Journal of Computer Integrated Manufacturing</i> , 1-22	4.3	1
141	Analysis of Industry 4.0 challenges using best worst method: A case study. <b>2021</b> , 159, 107487		16
140	A method for supporting the transformation of an existing production system with its integrated Enterprise Information Systems (EISs) into a Cyber Physical Production System (CPPS). <i>Computers in Industry</i> , <b>2021</b> , 131, 103483	11.6	1
139	The potential of industry 4.0 Cyber Physical System to improve quality assurance: An automotive case study for wash monitoring of returnable transit items. <b>2021</b> , 32, 461-475		9

138 Resource Availability and Capability Monitoring. **2021**, 155-181

137	Design and Simulation of IoT Systems Using the Cisco Packet Tracer. <b>2021</b> , 11, 59-76	О
136	The Electro-Pneumatic System as a Cyber - Physical System: The Concept. <b>2021</b> , 239-250	
135	AI-Envisioned Blockchain-Enabled Signature-Based Key Management Scheme for Industrial Cyber-Physical Systems. <b>2021</b> , 1-1	6
134	Industrial Design and Development Software System Architecture Based on Model-Based Systems Engineering and Cloud Computing. <b>2021</b> , 51, 401-423	3
133	Cloud Based Decision Making for Multi-agent Production Systems. <b>2021</b> , 673-686	2
132	Machine Vision Systems for Industrial Quality Control Inspections. <b>2018</b> , 631-641	16
131	Ubiquitous Manufacturing in the Age of Industry 4.0: A State-of-the-Art Primer. <b>2020,</b> 73-112	5
130	Engineering Multi-agent Systems Anno 2025. <b>2019</b> , 3-16	3
129	A Six-Layer Architecture for Digital Twins with Aggregation. <b>2020</b> , 171-182	16
128	The Framework for Designing Autonomous Cyber-Physical Multi-agent Systems for Adaptive Resource Management. <b>2019</b> , 52-64	4
127	TRILATERAL: A Model-Based Approach for Industrial CPS [Monitoring and Control. <b>2020</b> , 376-398	2
126	Multi-Agent Reinforcement Learning Tool for Job Shop Scheduling Problems. <b>2020</b> , 3-12	6
125	Enabling Semantics within Industry 4.0. <b>2017</b> , 39-52	6
124	Empowering a Cyber-Physical System for a Modular Conveyor System with Self-organization. <b>2018</b> , 157-170	7
123	A Framework for a Dynamic Inter-connection of Collaborating Agents with Multi-layered Application Abstraction Based on a Software-Bus System. <b>2019</b> , 150-157	2
122	Towards Autonomous AI Systems for Resource Management: Applications in Industry and Lessons Learned. <b>2018</b> , 12-25	16
121	Real-time Event Processing for Smart Logistics Networks. <b>2018</b> , 517-532	6

120	Maintenance of Railway Infrastructure Using Cyber-Physical Systems. <b>2020</b> , 521-540		1
119	Smart manufacturing: a framework for managing performance. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2021</b> , 34, 227-256	4.3	11
118	Reinforcement Learning for Cyber-Physical Systems. <b>2019</b> ,		5
117	Engineering Events in CPS - Experiences and Lessons Learned. 2017,		4
116	An Integrative Machine Learning Method to Improve Fault Detection and Productivity Performance in a Cyber-Physical System. <b>2020</b> , 20,		12
115	Intelligent Maintenance Systems and Predictive Manufacturing. <b>2020</b> , 142,		10
114	Rethinking the Framework of Smart Water System: A Review. <b>2020</b> , 12, 412		27
113	Industrial Automation Using Internet of Things. <b>2020</b> , 28-64		5
112	Learning-based Edge Computing Architecture for Regional Scheduling in Manufacturing System. <b>2021</b> ,		0
111	An intelligent hexapod robot for inspection of airframe components oriented by deep learning technique. <b>2021</b> , 43, 1		3
110	Integrating Industry 4.0 and circular economy: a review. 2021, ahead-of-print,		2
109	Analysis of barriers of cyber-physical system adoption in small and medium enterprises using interpretive ranking process. <b>2021</b> , ahead-of-print,		5
108	Progress and trends in integrating Industry 4.0 within Circular Economy: A comprehensive literature review and future research propositions. <b>2022</b> , 31, 559		10
107	The drivers of industry 4.0 in a circular economy: The palm oil industry in Malaysia. <b>2021</b> , 324, 129216		8
106	Engineering a Cyber-Physical Intersection Management [An Experience Report. 2017, 17-32		
105	Internet of Things (IoT) Realization in the Context of Industry 4.0 (I 4.0). <b>2017</b> , 3,		
104	Human-Machine-Environment Data Preparation Using Cooperative Manufacturing Process Triggers.		
103	THE INTELLIGENT PLANT 🖪 NEW APPROACH FOR METALS MANUFACTURING.		

K-ACE: A Flexible Environment for Knowledge-Aware Multi-Agent Systems. **2019**, 19-35

101	IEC 61499 and the Promise of Holonic Systems. <b>2019</b> , 3-12	1
100	Agent-Based Approach for Decentralized Data Analysis in Industrial Cyber-Physical Systems. <b>2019</b> , 130-144	2
99	Invulnerability Assessment of Cyber-Physics Systems for Blockchain Environment. <b>2019</b> , 450-458	
98	Recent Contribution to Computer Representation of Cyber Physical System for Changed Style of Engineer Cooperation. <b>2020</b> , 155-176	
97	Conceptual Model of a Digital Platform for Cyber-Physical Management of a Modern Enterprises Part 1. Digital Platform and Digital Ecosystem. <b>2019</b> , 20, 323-332	6
96	A CPS for Condition Based Maintenance Based on a Multi-agent System for Failure Modes Prediction in Grid Connected PV Systems. <b>2020</b> , 165-185	
95	Data fusion based on-line product quality evaluation of ternary cathode material cyber-physical systems. <b>2019</b> , 4, 353-364	1
94	Conceptual Model of a Digital Platform for Cyber-Physical Management of a Modern Enterprises. Part 2. Digital Services. <b>2019</b> , 20, 387-397	5
93	Cyber-Physical Systems Security: Definitions, Methodologies, Metrics, and Tools. <b>2020</b> , 477-488	
92	Content Structure for Driving Object Parameters in Contextual Model of Engineering Structure. <b>2020</b> , 319-333	
91	Future Enterprise as an Intelligent Cyber-Physical System. <b>2020</b> , 53, 10873-10878	О
90	Agile Methods and Cyber-Physical Systems Development Review with Preliminary Analysis. <b>2020</b> , 274-285	
89	Multi-Agent Systems to Implement Industry 4.0 Components. <b>2020</b> ,	5
88	Native OPC UA Handling and IEC 61499 PLC Integration within the Arrowhead Framework. 2020,	1
87	Efficiently Learning a Distributed Control Policy in Cyber-Physical Production Systems Via Simulation Optimization. <b>2020</b> ,	О
86	Industrial Automation Using Internet of Things. 2022, 355-383	
85	Context-Aware IoT-Enabled Cyber-Physical Systems: A Vision and Future Directions. <b>2020</b> , 1-16	O

84	An enterprise model on Sensing, Smart, and Sustainable (S. <b>2020</b> , 27,		O
83	Management of Sustainable Supply Chain and Industry 4.0: A Literature Review. <b>2020</b> , 1-47		2
82	Human-in-the-Loop Cyber-Physical Systems for Construction Safety. <b>2020</b> , 161-173		O
81	What Would Be the Next Design Evolution Under the Auspices of Industry 4.0?. <b>2020</b> , 28-45		
80	Architecture Based on Keyword Driven Testing with Domain Specific Language for a Testing System. <b>2020</b> , 310-316		O
79	Omni-channel integration: the matter of information and digital technology. <b>2021</b> , 41, 1660-1710		2
78	Fault-Tolerance in Cyber-Physical Systems: Literature Review and Challenges. 2020,		1
77	A model-based approach for developing event-driven architectures with AsyncAPI. 2020,		1
76	Towards Ontology-based Autonomous Intralogistics for Agile Remanufacturing Production Systems. <b>2021</b> ,		1
75	Co-Design Process for Upskilling the Workforce in the Factories of the Future. <b>2021</b> ,		2
74	Emergent control in the context of industry 4.0. <i>International Journal of Computer Integrated Manufacturing</i> , 1-16	4.3	2
73	The Cyber-Physical Production System of Smart Machining System. <b>2022</b> , 383-407		
72	An Industry 4.0 Asset Administration Shell-Enabled Digital Solution for Robot-Based Manufacturing Systems. <b>2021</b> , 9, 154448-154459		3
71	Machine Vision to Empower an Intelligent Personal Assistant for Assembly Tasks. <b>2021</b> , 447-462		
70	Performance Analysis of ZigBee-based IoT Prototype for Remote Monitoring in Power Grid Systems. <b>2020</b> ,		1
69	Lightweight Testbed for Cybersecurity Experiments in SCADA-based Systems. 2020,		1
68	Changed Communication in Engineering. 2020,		0
67	Contextual Integration of Activities in Virtual and Field Operating Cyber Physical Systems.		

66	Linking stakeholder and competitive pressure to Industry 4.0 and performance: Mediating effect of environmental commitment and green process innovation.		1
65	Evolution of Servitization: new business model opportunities. <b>2022</b> , 10, 77-90		
64	A cyber-physical system architecture based on lean principles for managing industry 4.0 setups. <i>International Journal of Computer Integrated Manufacturing</i> , 1-19	4.3	1
63	CPS: Role, Characteristics, Architectures and Future Potentials. <b>2022</b> , 200, 1347-1358		1
62	Cyber Physical Systems Emergence With Reference to Manpower Development. <b>2022</b> , 16-36		
61	The Impact of Industry 4.0 Technologies on Manufacturing Strategies: Proposition of Technology-Integrated Selection. <b>2022</b> , 10, 21574-21583		4
60	Implementing Industry 4.0 in Australia: Insights from Advanced Australian Manufacturers. <b>2022</b> , 8, 53		1
59	Wireless power transfer and energy harvesting in distributed sensor networks: Survey, opportunities, and challenges. <b>2022</b> , 18, 155014772110677		6
58	Context modeling for cyber-physical systems.		
57	An integrated approach of designing functionality with security for distributed cyber-physical systems <b>2022</b> , 1-33		
56	Factors affecting Industry 4.0 adoption [A hybrid SEM-ANN approach. 2022, 168, 108062		7
55	Multiparameter Optimization Framework of Cyberphysical Systems: A Case Study on Energy Saving of the Automotive Engine. <b>2021</b> , 10, 330		O
54	Model-driven development of asynchronous message-driven architectures with AsyncAPI. 1		0
53	An extended assessment of metaheuristics-based feature selection for intrusion detection in CPS perception layer. 1		2
52	The EIU Smart Learning Factory for Teaching and Research in 4.0 Era. 2022, 895-899		
51	An Application-Oriented Cyber-Physical Production Optimisation System Architecture for the Steel Industry. <b>2022</b> , 55, 60-65		3
50	Agent-Based Asset Administration Shell Approach for Digitizing Industrial Assets. <b>2022</b> , 55, 193-198		1
49	Autonomous Digital Twin of Enterprise: Method and Toolset for Knowledge-Based Multi-Agent Adaptive Management of Tasks and Resources in Real Time. <i>Mathematics</i> , <b>2022</b> , 10, 1662	2.3	

48	Integrated Functional Safety and Cybersecurity Evaluation in a Framework for Business Continuity Management. <i>Energies</i> , <b>2022</b> , 15, 3610	3.1	1
47	High Abstraction in Engineering Communication. 2022,		
46	Organizational tensions in industry 4.0 implementation: A paradox theory approach. 2022, 108532		2
45	Fault-Tolerance in Cyber-Physical Systems Using Holonic Multi-agent Systems. <b>2022</b> , 51-63		
44	Examining smart manufacturing challenges in the context of micro, small and medium enterprises. <i>International Journal of Computer Integrated Manufacturing</i> , 1-18	4.3	1
43	Cyber-Physical System Enabled Path Planning Simulation for Collaborative Industrial Robots. <b>2022</b> ,		O
42	Emergent Intelligence in Smart Ecosystems: Conflicts Resolution by Reaching Consensus in Resource Management. <i>Mathematics</i> , <b>2022</b> , 10, 1923	2.3	O
41	Energy Oriented Concepts and Other SMART WORLD Trends as Game Changers of Co-Production <b>R</b> eality or Future?. <i>Energies</i> , <b>2022</b> , 15, 4112	3.1	
40	Industrial Agents: From the Holonic Paradigm to Industrial Cyber-Physical Systems. <b>2022</b> , 117-134		
39	Semantic rules for capability matchmaking in the context of manufacturing system design and reconfiguration. <i>International Journal of Computer Integrated Manufacturing</i> , 1-27	4.3	
38	Design and Implementation of an Explainable Bidirectional LSTM Model Based on Transition System Approach for Cooperative AI-Workers. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 6390	2.6	2
37	The emergence of ethics engineering in Industrial Cyber-Physical Systems. 2022,		
36	Challenges facing by manufacturing industries towards implementation of industry 4.0: an empirical research.		
35	Model development for assessing inhibitors impacting Industry 4.0 implementation in Indian manufacturing industries: an integrated ISM-Fuzzy MICMAC approach.		O
34	A framework for an effective virtual commissioning of agent-based cyber-physical production systems integrated into manufacturing facilities. 1063293X2211218		
33	Supply Chain Resilience in the Fourth Industrial Revolution. <b>2022</b> , 149-163		15
32	Risks in Supply Chain Management. <b>2022</b> , 3-26		0
31	Aggregate Production Planning and Scheduling in the Industry 4.0 Environment. <b>2022</b> , 204, 784-793		O

30	Advancements in Industrial Cyber-Physical Systems: An Overview and Perspectives. 2022, 1-14	O
29	Integration of Additive Fabrication with High-Pressure Die Casting for Quality Structural Castings of Aluminium Alloys; Optimising Energy Consumption.	O
28	Prioritizing the barriers of green smart manufacturing using AHP in implementing Industry 4.0: a case from Indian automotive industry.	Ο
27	Digital Predictive Twins for Virtual Stability Analyzers. <b>2022</b> , 55, 1775-1780	0
26	Collective Intelligence in Self-Organized Industrial Cyber-Physical Systems. 2022, 11, 3213	3
25	Enhancing wisdom manufacturing as industrial metaverse for industry and society 5.0.	O
24	Interpretive model of enablers of Data-Driven Sustainable Quality Management practice in manufacturing industries: ISM approach. 1-24	O
23	Identification and severity assessment of challenges in the adoption of industry 4.0 in Indian construction industry. <b>2022</b> ,	O
22	Knowledge management in industry 4.0 environment for sustainable competitive advantage: a strategic framework. 1-15	0
21	Mist and Edge Computing Cyber-Physical Human-Centered Systems for Industry 5.0: A Cost-Effective IoT Thermal Imaging Safety System. <b>2022</b> , 22, 8500	2
20	Self-organization of a highly flexible shop floor From Muti-agent based interactions to an echolocation-inspired automation system. <b>2022</b> ,	0
19	The human role in Human-centric Industry. <b>2022</b> ,	Ο
18	Optimal control strategy by tracking and compensation for ICPS under the DoS attack.	О
17	FEderlicher Entwurf cyber-physischer Produktionssysteme. <b>2023</b> , 1-36	Ο
16	Enhancing a Biological inspired Self-organized Architecture towards Smart Manufacturing. 2022,	О
15	The Impact of Industry 4.0 on Ergonomics.	O
14	Self-Organization in Smart Manufacturing Background, Systematic Review, Challenges and Outlook. <b>2023</b> , 11, 10107-10136	O
13	A Review of Multi-agent Systems Used in Industrial Applications. <b>2023</b> , 3-22	Ο

12	Prioritizing the Barriers to the Adoption of Cyber-Physical Systems in Manufacturing Organizations Using Fuzzy AHP. <b>2023</b> , 554-567	0
11	Industry 4.0 in Metal Forming Industry Towards Automotive Applications: A Review. 2	O
10	Reactive Context Structure (RCS). <b>2023</b> ,	O
9	A Cyber Physical System (CPS) Enabled Approach for Aircraft Overhaul Shop-Floor Based on Real-Time Smart Data Analyzing. <b>2023</b> , 196-207	O
8	Integrated Autonomous Model System as Research Media. 2022,	O
7	BIM and Digital Twin for Developing Convergence Technologies as Future of Digital Construction. <b>2023</b> , 13, 441	1
6	Digital twin-enabled automated anomaly detection and bottleneck identification in complex manufacturing systems using a multi-agent approach. <b>2023</b> , 67, 242-264	0
5	Data mining and forecasting of pavement strength depending on the composition of asphalt concrete mix. <b>2023</b> , 371, 04013	O
4	Agglomeration of the Various Industry 4.0 Perspectives in the Supply Chain Performance Systems. <b>2023</b> , 673-684	0
3	Microservice-Oriented Architecture for Industry 4.0. <b>2023</b> , 4, 1179-1197	O
2	Distributed Control of Cyber Physical System on Various Domains: A Critical Review. <b>2023</b> , 11, 208	О
1	Enabling CPS and simulation-based multi-objective optimisation for material handling of reconfigurable manufacturing systems.	O