Dimitris Kiritsis

List of Publications by Year in descending order

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Version: 2024-02-01

56 papers	2,885 citations	236833 25 h-index	175177 52 g-index
63 all docs	63 docs citations	63 times ranked	1788 citing authors

#	Article	IF	Citations
1	Closed-loop PLM for intelligent products in the era of the Internet of things. CAD Computer Aided Design, 2011, 43, 479-501.	1.4	391
2	Product lifecycle management – from its history to its new role. International Journal of Product Lifecycle Management, 2010, 4, 360.	0.1	281
3	Zero defect manufacturing: state-of-the-art review, shortcomings and future directions in research. International Journal of Production Research, 2020, 58, 1-17.	4.9	256
4	Energy management in manufacturing: From literature review to a conceptual framework. Journal of Cleaner Production, 2017, 167, 1464-1489.	4.6	178
5	Research issues on closed-loop PLM. Computers in Industry, 2007, 58, 855-868.	5.7	170
6	An ontology-based approach for Product Lifecycle Management. Computers in Industry, 2010, 61, 787-797.	5.7	167
7	Current trends on ICT technologies for enterprise information systems. Computers in Industry, 2016, 79, 14-33.	5.7	118
8	Ontologies in the context of product lifecycle management: state of the art literature review. International Journal of Production Research, 2015, 53, 5657-5668.	4.9	82
9	A review of knowledge-based expert systems for process planning. Methods and problems. International Journal of Advanced Manufacturing Technology, 1995, 10, 240-262.	1.5	74
10	Deep learning for big data applications in CAD and PLM â€“ Research review, opportunities and case study. Computers in Industry, 2018, 100, 227-243.	5.7	71
11	Product Quality Improvement Policies in Industry 4.0: Characteristics, Enabling Factors, Barriers, and Evolution Toward Zero Defect Manufacturing. Frontiers in Computer Science, 2020, 2, .	1.7	67
12	Predictive algorithm to determine the suitable time to change automotive engine oil. Computers and Industrial Engineering, 2006, 51, 671-683.	3.4	41
13	A Quality-Oriented Digital Twin Modelling Method for Manufacturing Processes Based on A Multi-Agent Architecture. Procedia Manufacturing, 2020, 51, 309-315.	1.9	41
14	Integrated product relationships management: a model to enable concurrent product design and assembly sequence planning. Journal of Engineering Design, 2012, 23, 544-561.	1.1	39
15	Design modification supporting method based on product usage data in closed-loop PLM. International Journal of Computer Integrated Manufacturing, 2015, 28, 551-568.	2.9	38
16	Semantic technologies for engineering asset life cycle management. International Journal of Production Research, 2013, 51, 7345-7371.	4.9	35
17	A Scheduling Tool for Achieving Zero Defect Manufacturing (ZDM): A Conceptual Framework. IFIP Advances in Information and Communication Technology, 2018, , 271-278.	0.5	32
18	Cognitive Twins for Supporting Decision-Makings of Internet of Things Systems. Lecture Notes in Mechanical Engineering, 2020, , 105-115.	0.3	32

#	Article	IF	Citations
19	Closed-Loop Lifecycle Management of Service and Product in the Internet of Things: Semantic Framework for Knowledge Integration. Sensors, 2016, 16, 1053.	2.1	29
20	A Petri net model for integrated process and job shop production planning. Journal of Intelligent Manufacturing, 2000, 11, 191-207.	4.4	25
21	Identification of the critical reaction times for re-scheduling flexible job shops for different types of unexpected events. Procedia CIRP, 2020, 93, 903-908.	1.0	25
22	A hybrid Decision Support System for automating decision making in the event of defects in the era of Zero Defect Manufacturing. Journal of Industrial Information Integration, 2022, 26, 100263.	4.3	25
23	The Industrial Ontologies Foundry Proof-of-Concept Project. IFIP Advances in Information and Communication Technology, 2018, , 402-409.	0.5	24
24	A two-layer criteria evaluation approach for re-scheduling efficiently semi-automated assembly lines with high number of rush orders. Procedia CIRP, 2021, 97, 172-177.	1.0	23
25	General Modeling Language to Support Modelâ€based Systems Engineering Formalisms (Part 1). Incose International Symposium, 2020, 30, 323-338.	0.2	21
26	Design Ontology Supporting Model-Based Systems Engineering Formalisms. IEEE Systems Journal, 2022, 16, 5465-5476.	2.9	21
27	Digital Twin-Enabled Decision Support Services in Industrial Ecosystems. Applied Sciences (Switzerland), 2021, 11, 11418.	1.3	19
28	Optimising online review inspired product attribute classification using the self-learning particle swarm-based Bayesian learning approach. International Journal of Production Research, 2019, 57, 3099-3120.	4.9	18
29	Identification of the Inspection Specifications for Achieving Zero Defect Manufacturing. IFIP Advances in Information and Communication Technology, 2019, , 267-273.	0.5	17
30	Human resource optimisation through semanticallyÂenriched data. International Journal of Production Research, 2018, 56, 2855-2877.	4.9	14
31	A Semantic-driven Approach for Industry 4.0. , 2019, , .		14
32	Decentralized Industrial IoT Data Management Based on Blockchain and IPFS. IFIP Advances in Information and Communication Technology, 2020, , 222-229.	0.5	13
33	A decision support method for product conceptual design considering product lifecycle factors and resource constraints. International Journal of Advanced Manufacturing Technology, 2011, 52, 865-886.	1.5	12
34	Heuristic algorithms for maximising the total profit of end-of-life computer remanufacturing. International Journal of Production Research, 2017, 55, 1350-1367.	4.9	12
35	Model-Based Systems Engineering Tool-Chain for Automated Parameter Value Selection. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2333-2347.	5.9	11
36	A Generic Methodology for Calculating Rescheduling Time for Multiple Unexpected Events in the Era of Zero Defect Manufacturing. Frontiers in Mechanical Engineering, 2021, 7, .	0.8	11

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37	The role of big data analytics in the context of modeling design and operation of manufacturing systems. , 2022, , 243-275.		11
38	Systematic Literature Review of MBSE Tool-Chains. Applied Sciences (Switzerland), 2022, 12, 3431.	1.3	11
39	A Cognitive Approach to Manage the Complexity of Digital Twin Systems. Progress in IS, 2021, , 105-115.	0.5	10
40	Predictive maintenance key control parameters for achieving efficient Zero Defect Manufacturing. Procedia CIRP, 2021, 104, 80-84.	1.0	10
41	Comparison Between Product and Process Oriented Zero-Defect Manufacturing (ZDM) Approaches. IFIP Advances in Information and Communication Technology, 2021, , 105-112.	0.5	9
42	The Training Data Evaluation Tool: Towards a unified ontology-based solution for industrial training evaluation. Procedia Manufacturing, 2018, 23, 219-224.	1.9	8
43	A Method for Converting Current Data to RDF in the Era of Industry 4.0. IFIP Advances in Information and Communication Technology, 2019, , 307-314.	0.5	8
44	A Knowledge Management Approach Supporting Model-Based Systems Engineering. Advances in Intelligent Systems and Computing, 2021, , 581-590.	0.5	7
45	Data-based model maintenance in the era of industry 4.0: A methodology. Journal of Manufacturing Systems, 2022, 63, 304-316.	7.6	7
46	Concept for Context-Aware Manufacturing Dashboard Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 204-209.	0.4	6
47	Degradation mode and criticality analysis based on product usage data. International Journal of Advanced Manufacturing Technology, 2015, 78, 1727-1742.	1.5	6
48	Systems Engineering Approach to Identify Requirements for Digital Twins Development. IFIP Advances in Information and Communication Technology, 2020, , 82-90.	0.5	6
49	A Semantic Model in the Context of Maintenance: A Predictive Maintenance Case Study. Applied Sciences (Switzerland), 2022, 12, 6065.	1.3	6
50	Model-based system engineering supporting production scheduling based on satisfiability modulo theory. Journal of Industrial Information Integration, 2022, 27, 100329.	4.3	5
51	A Computational Method for Identifying the Optimum Buffer Size in the Era of Zero Defect Manufacturing. IFIP Advances in Information and Communication Technology, 2020, , 443-450.	0.5	3
52	A Semantic Ontology-Based Approach to Support Model-Based Systems Engineering Design for an Aircraft Prognostic Health Management System. , 2022, 2, .		3
53	Bibliometric Analysis of Model-Based Systems Engineering: Past, Current, and Future. IEEE Transactions on Engineering Management, 2024, 71, 2475-2492.	2.4	3
54	Towards a Methodology for Selecting Product Usage Information Sources for the (Re-)Design of Product Service Systems. , 2016, , .		2

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55	RMPFQ: A Quality-Oriented Knowledge Modelling Method for Manufacturing Systems Towards Cognitive Digital Twins. , 2022, 2, .		2
56	A Data-Knowledge Hybrid Driven Method for Gas Turbine Gas Path Diagnosis. Applied Sciences (Switzerland), 2022, 12, 5961.	1.3	2