Jinzhi Lu

List of Publications by Year in descending order

49 papers	515 citations	758635 12 h-index	752256 20 g-index
54 all docs	54 docs citations	54 times ranked	167 citing authors

#	Article	IF	Citations
1	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
2	A blockchain and IoT-based lightweight framework for enabling information transparency in supply chain finance. Digital Communications and Networks, 2022, 8, 576-587.	2.7	36
3	Cognitive Twins for Supporting Decision-Makings of Internet of Things Systems. Lecture Notes in Mechanical Engineering, 2020, , 105-115.	0.3	32
4	General Modeling Language to Support Modelâ€based Systems Engineering Formalisms (Part 1). Incose International Symposium, 2020, 30, 323-338.	0.2	21
5	Design Ontology Supporting Model-Based Systems Engineering Formalisms. IEEE Systems Journal, 2022, 16, 5465-5476.	2.9	21
6	Digital Twin-Enabled Decision Support Services in Industrial Ecosystems. Applied Sciences (Switzerland), 2021, 11, 11418.	1.3	19
7	A Service-Oriented Tool-Chain for Model-Based Systems Engineering of Aero-Engines. IEEE Access, 2018, 6, 50443-50458.	2.6	15
8	Ontology Supporting Model-Based Systems Engineering Based on a GOPPRR Approach. Advances in Intelligent Systems and Computing, 2019, , 426-436.	0.5	14
9	Decentralized Industrial IoT Data Management Based on Blockchain and IPFS. IFIP Advances in Information and Communication Technology, 2020, , 222-229.	0.5	13
10	MBSE Applicability Analysis in Chinese Industry. Incose International Symposium, 2018, 28, 1037-1051.	0.2	12
11	General Modeling Language Supporting Model Transformations of MBSE (Part 2). Incose International Symposium, 2020, 30, 1460-1473.	0.2	12
12	Cognitive Digital Twins for Resilience in Production: A Conceptual Framework. Information (Switzerland), 2022, 13, 33.	1.7	12
13	Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. IEEE Systems Journal, 2020, 14, 1297-1308.	2.9	11
14	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
15	Systematic Literature Review of MBSE Tool-Chains. Applied Sciences (Switzerland), 2022, 12, 3431.	1.3	11
16	An Investigation of Functionalities of Future Toolâ€chain for Aerospace Industry. Incose International Symposium, 2017, 27, 1408-1422.	0.2	10
17	A Cognitive Approach to Manage the Complexity of Digital Twin Systems. Progress in IS, 2021, , 105-115.	0.5	10
18	Cognitive twin construction for system of systems operation based on semantic integration and high-level architecture. Integrated Computer-Aided Engineering, 2022, 29, 277-295.	2.5	9

#	Article	IF	Citations
19	Towards A Service-oriented Framework for MBSE Tool-chain Development. , 2018, , .		7
20	A Knowledge Management Approach Supporting Model-Based Systems Engineering. Advances in Intelligent Systems and Computing, 2021, , 581-590.	0.5	7
21	A Complexity Analysis Approach for Model-based System Engineering. , 2020, , .		6
22	Systems Engineering Approach to Identify Requirements for Digital Twins Development. IFIP Advances in Information and Communication Technology, 2020, , 82-90.	0.5	6
23	Empirical-Evolution of Frameworks Supporting Co-simulation Tool-Chain Development. Advances in Intelligent Systems and Computing, 2018, , 813-828.	0.5	6
24	Model-based system engineering supporting production scheduling based on satisfiability modulo theory. Journal of Industrial Information Integration, 2022, 27, 100329.	4.3	5
25	Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. IEEE Systems Journal, 2020, 14, 3256-3266.	2.9	4
26	Integration of modeling and verification for system model based on KARMA language. , 2021, , .		4
27	A Bibliometric Analysis on Model-based Systems Engineering. , 2021, , .		4
28	A PSO-Based Layout Method for GNSS Pseudolite System. , 2017, , .		3
29	A domain-specific modeling approach supporting tool-chain development with Bayesian network models. Integrated Computer-Aided Engineering, 2020, 27, 153-171.	2.5	3
30	Cyber-Physical LPG Debutanizer Distillation Columns: Machine-Learning-Based Soft Sensors for Product Quality Monitoring. Applied Sciences (Switzerland), 2021, 11, 11790.	1.3	3
31	A Semantic Ontology-Based Approach to Support Model-Based Systems Engineering Design for an Aircraft Prognostic Health Management System. , 2022, 2, .		3
32	Bibliometric Analysis of Model-Based Systems Engineering: Past, Current, and Future. IEEE Transactions on Engineering Management, 2024, 71, 2475-2492.	2.4	3
33	A Thermal Balance Oriented Task Mapping for CMPs. , 2018, , .		2
34	An MBSE Tool to Support Architecture Design for Spacecraft Electrical Power System. Incose International Symposium, 2018, 28, 64-78.	0.2	2
35	An Open Source Lifecycle Collaboration Approach Supporting Internet of Things System Development. , 2019, , .		2
36	Supporting Digital Twin Integration Using Semantic Modeling and High-Level Architecture. IFIP Advances in Information and Communication Technology, 2021, , 228-236.	0.5	2

#	Article	IF	Citations
37	Cognitive Thread Supports System of Systems for Complex System Development. , 2021, , .		2
38	A Tool Integration Language to Formalize Co-simulation Tool-Chains for Cyber-Physical System (CPS). Lecture Notes in Computer Science, 2018, , 391-405.	1.0	2
39	Model-based Systems Engineering Supporting Cost Analysis of Aircraft Development Process. , 2021, , .		2
40	RMPFQ: A Quality-Oriented Knowledge Modelling Method for Manufacturing Systems Towards Cognitive Digital Twins. , 2022, 2, .		2
41	A Data-Knowledge Hybrid Driven Method for Gas Turbine Gas Path Diagnosis. Applied Sciences (Switzerland), 2022, 12, 5961.	1.3	2
42	An Investigation of Model-Based Design Framework for Aero-Engine Control Systems. Lecture Notes in Electrical Engineering, 2016, , 625-638.	0.3	1
43	A Model Query Language for Domain-Specific Models. , 2020, , .		1
44	Semantic Modeling Approach Supporting Process Modeling and Analysis in Aircraft Development. Applied Sciences (Switzerland), 2022, 12, 3067.	1.3	1
45	Ontology-based system to support industrial system design for aircraft assembly. IFAC-PapersOnLine, 2022, 55, 175-180.	0.5	1
46	A Fault Propagation Model for FPGA Netlist with Un-Reconvergence Paths. , 2018, , .		0
47	A New Hardware Logic Circuit for Evaluating Multi-Processor Chip Security. , 2018, , .		0
48	Semantic Modeling Supports the Integration of Concept-Decision-Knowledge. IFIP Advances in Information and Communication Technology, 2021, , 208-217.	0.5	0
49	3D Visualization Supporting Situational Awareness of Model-Based System of Systems. Communications in Computer and Information Science, 2022, , 113-127.	0.4	0