Nikolaos Papakonstantinou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8623242/publications.pdf

Version: 2024-02-01

46	523	1039406	1199166
papers	citations	9 h-index	12 g-index

46	46	46	372
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Roadmap to semi-automatic generation of digital twins for brownfield process plants. Journal of Industrial Information Integration, 2022, 27, 100282.	4.3	22
2	A graph theory approach to predicting functional failure propagation during conceptual systems design. Systems Engineering, 2021, 24, 100-121.	1.6	8
3	A Zero Trust Hybrid Security and Safety Risk Analysis Method. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	18
4	Hybrid Digital Twin for process industry using Apros simulation environment. , 2021, , .		6
5	Integrating 2D and 3D Digital Plant Information Towards Automatic Generation of Digital Twins. , 2020, , .		13
6	Applicability of AADL in modelling the overall I&C architecture of a nuclear power plant. , 2020, , .		2
7	Towards a Zero Trust Hybrid Security and Safety Risk Analysis Method. , 2020, , .		5
8	Early Hybrid Safety and Security Risk Assessment Based on Interdisciplinary Dependency Models. , 2019, , .		4
9	Early Assessment of Drone Fleet Defence in Depth Capabilities for Mission Success. , 2019, , .		2
10	ENPRO Data Integration: Extending DEXPI Towards the Asset Lifecycle. Chemie-Ingenieur-Technik, 2019, 91, 240-255.	0.4	31
11	Adapting an agile manufacturing concept to the reference architecture model industry 4.0: A survey and case study. Journal of Industrial Information Integration, 2019, 15, 147-160.	4.3	106
12	Automatic Fault Tree Generation From Multidisciplinary Dependency Models for Early Failure Propagation Assessment. , 2018, , .		2
13	Assessing the Consequence of Cyber and Physical Malicious Attacks in Complex, Cyber-Physical Systems During Early System Design. , 2018, , .		3
14	Hyperdimensional Computing in Industrial Systems: The Use-Case of Distributed Fault Isolation in a Power Plant. IEEE Access, 2018, 6, 30766-30777.	2.6	22
15	Risk modeling of variable probability external initiating events. , 2017, , .		1
16	A Graph Theory Approach to Functional Failure Propagation in Early Complex Cyberâ€Physical Systems (CCPSs). Incose International Symposium, 2017, 27, 1734-1748.	0.2	6
17	A Model Driven Approach for Early Assessment of Defense in Depth Capabilities of Complex Sociotechnical Systems. , 2017, , .		3
18	A dynamic failure propagation methodology supporting the risk assessment of multidisciplinary systems. , 2017, , .		0

#	Article	IF	Citations
19	A model-driven approach for incorporating human reliability analysis in early emergency operating procedure development. , 2016, , .		1
20	District heating temperature control algorithm based on short term weather forecast and consumption predictions. , 2016, , .		3
21	A Functional Modelling Based Methodology for Testing the Predictions of Fault Detection and Identification Systems. , 2016, , .		1
22	Cable routing modeling in early system design to prevent cable failure propagation events. , 2016, , .		5
23	Modeling of function failure propagation across uncoupled systems. , 2015, , .		16
24	A Plant-Wide and Function-Specific Hierarchical Functional Fault Detection and Identification (HFFDI) System for Multiple Fault Scenarios on Complex Systems. , 2015, , .		4
25	Fault detection in the hyperspace: Towards intelligent automation systems. , 2015, , .		21
26	A SysML profile supporting change orders in model driven engineering. , 2015, , .		1
27	Change request management in model-driven engineering of industrial automation software. , 2015, , .		11
28	An auction-based smart district heating grid. , 2015, , .		2
29	Security impact assessment of industrial automation systems using genetic algorithm and simulation. , 2014, , .		1
30	Simulation Based Machine Learning for Fault Detection in Complex Systems Using the Functional Failure Identification and Propagation Framework. , 2014, , .		9
31	Safety analysis of mechatronic product lines. Mechatronics, 2014, 24, 231-240.	2.0	7
32	Using a Feasibility Study of Human Computation for Failure Scenario Identification. , 2014, , .		0
33	Common cause failure analysis of cyberâ€“physical systems situated in constructed environments. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2013, 24, 375-394.	1.2	32
34	Generating an Object Oriented IEC 61131-3 software product line architecture from SysML. , 2013, , .		18
35	Simulation-based risk assessment of robot fleets in flooded environments. , 2013, , .		2
36	A Simulation Based Approach to Automate Event Tree Generation for Early Complex System Designs. , 2013, , .		6

#	Article	IF	Citations
37	Early phase fault propagation analysis of safety critical factory automation systems. , 2012, , .		4
38	Using Fault Propagation Analyses for Early Elimination of Unreliable Design Alternatives of Complex Cyber-Physical Systems. , 2012, , .		5
39	Simulation of Interactions and Emergent Failure Behavior During Complex System Design. Journal of Computing and Information Science in Engineering, 2012, 12, .	1.7	18
40	Early integration of safety to the mechatronic system design process by the functional failure identification and propagation framework. Mechatronics, 2012, 22, 137-151.	2.0	65
41	Generating and validating product instances in IEC 61131–3 from feature models. , 2011, , .		8
42	Capturing Interactions and Emergent Failure Behavior in Complex Engineered Systems at Multiple Scales. , 2011, , .		9
43	A model-based control development for optimising the driving performance of a cone ring transmission in a vehicle. International Journal of Automation and Control, 2010, 4, 440.	0.3	0
44	Reducing redesign of safety critical control systems by early risk assessment. , 2010, , .		3
45	An IEC 61499 Based Approach for Distributed Batch Process Control. Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on, 2007, , .	0.0	14
46	An IEC61499 Execution Environment for an aJile-based Field Device. , 2006, , .		3