Kleanthis Thramboulidis

List of Publications by Year
in descending order

44 papers	1,163 citations	623734 14 h-index	580821 25 g-index
44 all docs	44 docs citations	44 times ranked	803 citing authors

#	Article	IF	Citations
1	Model-Integrated Mechatronics—Toward a New Paradigm in the Development of Manufacturing Systems. IEEE Transactions on Industrial Informatics, 2005, 1, 54-61.	11.3	175
2	UML4IoT—A UML-based approach to exploit IoT in cyber-physical manufacturing systems. Computers in Industry, 2016, 82, 259-272.	9.9	140
3	The 3+1 SysML View-Model in Model Integrated Mechatronics. Journal of Software Engineering and Applications, 2010, 03, 109-118.	1.1	104
4	A cyber–physical system-based approach for industrial automation systems. Computers in Industry, 2015, 72, 92-102.	9.9	85
5	Towards a Model-Driven IEC 61131-Based Development Process in Industrial Automation. Journal of Software Engineering and Applications, 2011, 04, 217-226.	1.1	79
6	Model driven development of distributed control applications. International Journal of Advanced Manufacturing Technology, 2007, 33, 233-242.	3.0	52
7	Cyber-physical microservices: An IoT-based framework for manufacturing systems. , 2018, , .		51
8	Challenges in the development of Mechatronic systems: The Mechatronic Component. , 2008, , .		45
9	A Real-Time-Linux-Based Framework for Model-Driven Engineering in Control and Automation. IEEE Transactions on Industrial Electronics, 2011, 58, 914-924.	7.9	41
10	An MDD process for IEC 61131-based industrial automation systems. , 2011, , .		38
11	Different perspectives [Face to Face; "IEC 61499 function block model: Facts and fallacies". IEEE Industrial Electronics Magazine, 2009, 3, 7-26.	2.6	35
12	CPuS-IoT: A cyber-physical microservice and IoT-based framework for manufacturing assembly systems. Annual Reviews in Control, 2019, 47, 237-248.	7.9	35
13	A tool supported engineering process for developing control applications. Computers in Industry, 2006, 57, 462-472.	9.9	26
14	Transformation of Function Block Diagrams to UPPAAL timed automata for the verification of safety applications. Annual Reviews in Control, 2012, 36, 338-345.	7.9	25
15	IEC 61499 vs. 61131: A Comparison Based on Misperceptions. Journal of Software Engineering and Applications, 2013, 06, 405-415.	1.1	19
16	Integrating the 3+1 SysML view model with safety engineering. , 2010, , .		18
17	3+1 SysML view model for IEC61499 Function Block control systems. , 2010, , .		17
18	A knowledge-based framework for complex, proactive and service-oriented e-negotiation systems. Electronic Commerce Research, 2009, 9, 317-349.	5.0	15

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19	IEC 61499 as an Enabler of Distributed and Intelligent Automation: A State-of-the-Art Review—A Different View. Journal of Engineering (United States), 2013, 2013, 1-9.	1.0	15
20	IEC 61499: Back to the well proven practice of IEC 61131?. , 2012, , .		14
21	An IEC61499-based development approach for distributed industrial control applications. International Journal of Modelling, Identification and Control, 2008, 4, 186.	0.2	13
22	Design Alternatives in the IEC 61499 Function Block Model. , 2006, , .		12
23	Towards an IoT-based Framework for Evolvable Assembly Systems. IFAC-PapersOnLine, 2018, 51, 182-187.	0.9	12
24	Function Block Diagram to UPPAAL Timed Automata Transformation Based on Formal Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1653-1659.	0.4	10
25	IoT-based integration of IEC 61131 industrial automation systems: The case of UML4IoT. , 2016, , .		9
26	Comments on "Bridging Service-Oriented Architecture and IEC 61499 for Flexibility and Interoperability". IEEE Transactions on Industrial Informatics, 2017, 13, 1494-1496.	11.3	9
27	Integration of model-based engineering with system safety analysis. International Journal of Industrial and Systems Engineering, 2013, 15, 193.	0.2	8
28	Implementation model alternatives for IEC 61499 Function Block networks. , 2008, , .		7
29	SLA e-Negotiations, Enforcement and Management in an Autonomic Environment. Lecture Notes in Computer Science, 2008, , 120-125.	1.3	7
30	An industrial evaluation of SysML: The case of a nuclear automation modernization project. , 2013, , .		7
31	A methodology to upgrade legacy industrial systems to meet safety regulations. , 2011, , .		6
32	Towards an Object-Oriented extension for IEC 61131. , 2012, , .		6
33	An open distributed architecture for flexible hybrid assembly systems: a model-driven engineering approach. International Journal of Advanced Manufacturing Technology, 2016, 85, 1449-1460.	3.0	6
34	Dynamic Service Deployment using an Ontologybased Description of Devices and Services. , 2007, , .		4
35	An IEC61499 Execution Environment for an aJile-based Field Device. , 2006, , .		3
36	Towards an automated verification process for industrial safety applications. , 2011, , .		3

#	Article	IF	Citations
37	Towards a Knowledge-Base for Building Complex, Proactive and Service-Oriented E-negotiation Systems. , 2008, , .		2
38	Comments on "Object-Oriented Modeling of Complex Mechatronic Components for the Manufacturing Industry. IEEE/ASME Transactions on Mechatronics, 2008, 13, 485-487.	5.8	2
39	IEC 61131 as enabler of OO and MDD in industrial automation. , 2012, , .		2
40	On Formal Verification of Function Block Applications in Safety-related Software Development. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 109-114.	0.4	2
41	Comments on â€œA model-based design methodology for the development of mechatronic systemsâ€. Mechatronics, 2015, 28, 1-3.	3.3	2
42	Comments on "A Methodology for the Development of Distributed Real-Time Control Applications With Focus on Task Allocation in Heterogeneous Systems. IEEE Transactions on Industrial Electronics, 2007, 54, 1245-1248.	7.9	1
43	An RTSJ-based framework for model-driven development in distributed control and automation. International Journal of Industrial and Systems Engineering, 2011, 7, 518.	0.2	1
44	Service Acquisition for Mobile Users in Future Internet. Wireless Personal Communications, 2014, 74, 189-209.	2.7	0