JoÃ£o Paulo Barros

List of Publications by Year
in descending order

44 papers	**438** citations	1478505 **6** h-index	1281871 **11** g-index
45 all docs	**45** docs citations	**45** times ranked	**163** citing authors

#	Article	IF	Citations
1	The Input-Output Place-Transition Petri Net Class and Associated Tools. Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on, 2007, , .	0.0	98
2	Structuring and Composability Issues in Petri Nets Modeling. IEEE Transactions on Industrial Informatics, 2005, 1, 112-123.	11.3	70
3	From Petri net models to VHDL implementation of digital controllers. , 2007, , .		45
4	Educating for mobile computing. , 2012, , .		23
5	Petri nets tools framework supporting FPGA-based controller implementations. , 2008, , .		19
6	On structuring mechanisms for Petri nets based system design. , 0, , .		18
7	Ecore representation for extending PNML for Input-Output Place-Transition nets. , 2010, , .		14
8	Modifying Petri net models by means of crosscutting operations. , 0, , .		12
9	A graphical editor for the input-output place-transition petri net class. , 2007, , .		12
10	From Petri net models to C implementation of digital controllers. , 2010, , .		12
11	An Ecore based Petri net type definition for PNML IOPT models. , 2011, , .		10
12	Refining IOPT Petri Nets Class for Embedded System Controller Modeling. , 2018, , .		10
13	Structuring Mechanisms in Petri Net Models. , 2005, , 153-166.		10
14	From UML state machines to Petri nets: History attribute translation strategies. , 2011, , .		8
15	Towards Statecharts to Input-Output Place Transition Nets Transformations. International Federation for Information Processing, 2011, , 227-236.	0.4	7
16	SysVeritas: A Framework for Verifying IOPT Nets and Execution Semantics within Embedded Systems Design. International Federation for Information Processing, 2011, , 256-265.	0.4	7
17	Petri Net based Building Automation and Monitoring System. Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on, 2007, , .	0.0	6
18	Assessment and grading for CS1. , 2010, , .		6

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19	Petri Net Based Specification and Verification of Globally-Asynchronous-Locally-Synchronous System. International Federation for Information Processing, 2011, , 237-245.	0.4	6
20	IOPT-Tools â€" From Executable Models to Automatic Code Generation for Embedded Controllers Development. Lecture Notes in Computer Science, 2022, , 127-138.	1.3	6
21	Towards automatic code generation for distributed cyber-physical systems: A first prototype for Arduino boards. , 2017, , .		5
22	Studentsâ€™ Perceptions of Paper-Based vs. Computer-Based Testing in an Introductory Programming Course. , 2018, , .		5
23	A Proposal for the Description of Individual Course Units. International Journal of Engineering Pedagogy, 2013, 3, 71.	1.1	3
24	Controller design and implementation: An approach based on problem frames and Petri Net models. , 2015, , .		3
25	Assessment rules and student cheating: A set of concerns as guidelines. , 2016, , .		3
26	Exploring USB Connection Vulnerabilities on Android Devices - Breaches using the Android Debug Bridge. , 2017, , .		3
27	Addition of fault detection capabilities in automation applications using Petri nets. , 2004, , .		2
28	Coloured Petri net model of the bCMS system using CPN tools. , 2013, , .		2
29	Requirements specification for controller design â€" From use cases to IOPT net models. , 2014, , .		2
30	From non-autonomous Petri net models to executable state machines. , 2019, , .		2
31	On the Use of Coloured Petri Nets for Object-Oriented Design. Lecture Notes in Computer Science, 2004, , 117-136.	1.3	2
32	From SysML State Machines to Petri Nets Using ATL Transformations. IFIP Advances in Information and Communication Technology, 2014, , 227-236.	0.7	2
33	Implementation of a Non-Autonomous High-Level Petri Net Model for Reactive Real-Time Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 397-402.	0.4	1
34	Java2Sequence. , 2011, , .		1
35	On the verification of non-autonomous Petri net models using autonomous petri net tools. , 2012, , .		1
36	From requirements to code (Re2Code) â€" A model-based approach for controller implementation. , 2016, , .		1

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37	Merging and Splitting Petri Net Models within Distributed Embedded Controller Design. , 0, , 160-183.		1
38	PNML based composition in non-autonomous Petri net models. , 2009, , .		0
39	Towards a complete description for individual course units: A follow-up to the Bologna proposals. , 2012, , .		0
40	Model composition by reusing Petri net based modules. , 2012, , .		0
41	Curricular unit specification for programme assessment: Fostering teacher reflection, while improving course catalogues. , 2013, , .		0
42	Towards the use of Place/Transition net tools for analysis of IOPT models. , 2014, , .		0
43	Student perspectives on the use of a Java library for novices. , 2017, , .		0
44	Bibliometric Analysis of 50 Years of IEEE Industrial Electronics Society Publications. , 2018, , .		0