

# Filipe Moutinho

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

458  
citations

1478280

6  
h-index

1281743

11  
g-index

54  
all docs

54  
docs citations

54  
times ranked

122  
citing authors

#	ARTICLE	IF	CITATIONS
1	IOPT-tools &#x2014; A Web based tool framework for embedded systems controller development using Petri nets. , 2013, , .		39
2	Asynchronous-Channels Within Petri Net-Based GALS Distributed Embedded Systems Modeling. IEEE Transactions on Industrial Informatics, 2014, 10, 2024-2033.	7.2	37
3	IOPT-tools &#x2014; Towards cloud design automation of digital controllers with Petri nets. , 2014, , .		34
4	From IOPT Petri nets to C: An automatic code generator tool. , 2011, , .		27
5	Model-checking framework for embedded systems controllers development using IOPT Petri nets. , 2012, , .		23
6	Extending input-output place-transition Petri nets for distributed controller systems development. , 2014, , .		21
7	Towards Usage of Formal methods within Embedded Systems Co-design. , 0, , .		19
8	Web based IOPT Petri net Editor with an extensible plugin architecture to support generic net operations. , 2012, , .		18
9	Asynchronous-Channels and Time-Domains Extending Petri Nets for GALS Systems. International Federation for Information Processing, 2012, , 143-150.	0.4	16
10	Ecore representation for extending PNML for Input-Output Place-Transition nets. , 2010, , .		14
11	State space generation algorithm for gals systems modeled by IOPT Petri nets. , 2011, , .		13
12	IOPT Petri net state space generation algorithm with maximal-step execution semantics. , 2011, , .		12
13	Extended Semantic Annotations for Generating Translators in the Arrowhead Framework. IEEE Transactions on Industrial Informatics, 2018, 14, 2760-2769.	7.2	12
14	Static and Dynamic Algorithms for Terrain Classification in UAV Aerial Imagery. Remote Sensing, 2019, 11, 2501.	1.8	12
15	Fabric Defect Detection With Deep Learning and False Negative Reduction. IEEE Access, 2021, 9, 81936-81945.	2.6	11
16	An Ecore based Petri net type definition for PNML IOPT models. , 2011, , .		10
17	Towards medical device behavioural validation using Petri nets. , 2013, , .		10
18	How to Build a 2D and 3D Aerial Multispectral Map?â€”All Steps Deeply Explained. Remote Sensing, 2021, 13, 3227.	1.8	10

#	ARTICLE	IF	CITATIONS
19	From models to controllers integrating graphical animation in FPGA through automatic code generation. , 2009, , .		9
20	An IOPT-net state-space generator tool. , 2011, , .		9
21	State space generation for Petri nets-based GALS systems. , 2012, , .		9
22	Configuring communication nodes for networked embedded systems specified by Petri nets. , 2013, , .		9
23	Asynchronous wrappers configuration within GALS systems specified by Petri nets. , 2012, , .		7
24	Communication support for Petri nets based distributed controllers. , 2014, , .		7
25	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
26	Distributed embedded systems design using Petri nets. , 2013, , .		6
27	Attracting students to engineering through autonomous sailing yacht development. , 2015, , .		6
28	Petri Net Based Specification and Verification of Globally-Asynchronous-Locally-Synchronous System. International Federation for Information Processing, 2011, , 237-245.	0.4	6
29	IOPT-Tools “ From Executable Models to Automatic Code Generation for Embedded Controllers Development. Lecture Notes in Computer Science, 2022, , 127-138.	1.0	6
30	Automatic generation of graphical user interfaces for VHDL based controllers. , 2011, , .		5
31	Semantic annotation of data in schemas to support data translations. , 2016, , .		5
32	Annotation Rules for XML Schemas with Grouped Semantic Annotations. , 2019, , .		4
33	A State-Space Based Model-Checking Framework for Embedded System Controllers Specified Using IOPT Petri Nets. International Federation for Information Processing, 2012, , 123-132.	0.4	4
34	Towards distributed execution of Petri net conflicts through model transformation. , 2013, , .		3
35	GPGPU applied to support the construction of the state-space graphs of IOPT Petri net models. , 2019, , .		3
36	MDA-Based Methodology for Verifying Distributed Execution of Embedded Systems Models. Advances in Civil and Industrial Engineering Book Series, 2013, , 112-135.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Automatic Generation of Run-Time Monitoring Capabilities to Petri Nets Based Controllers with Graphical User Interfaces. International Federation for Information Processing, 2011, , 246-255.	0.4	2
38	Extending a net splitting operation for decomposition of high-level Petri nets. , 2012, , .		1
39	A Survey of IOPT-Flow for GALS Systems Development. , 2019, , .		1
40	Asynchronous Interfaces for IOPT-Flow to Support GALS Systems. , 2019, , .		1
41	Web-based Editor for Signal Interpretation Models. , 2019, , .		1
42	NOVA Mobility Assistive System: Developed and Remotely Controlled with IOPT-Tools. Electronics (Switzerland), 2020, 9, 1328.	1.8	1
43	Augmenting High-Level Petri Nets to Support GALS Distributed Embedded Systems Specification. IFIP Advances in Information and Communication Technology, 2013, , 221-228.	0.5	1
44	Merging and Splitting Petri Net Models within Distributed Embedded Controller Design. , 0, , 160-183.		1
45	JSON Schemas with Semantic Annotations Supporting Data Translation. Applied Sciences (Switzerland), 2021, 11, 11978.	1.3	1
46	Distributed controllers modeling through Petri nets with multi-asynchronous-channels. , 2015, , .		0
47	Reconfigurable devices based experimentation supporting teaching introductory digital systems. , 2017, , .		0
48	Application Example. Springer Briefs in Electrical and Computer Engineering, 2016, , 43-67.	0.3	0
49	Development of Distributed Embedded Controllers. Springer Briefs in Electrical and Computer Engineering, 2016, , 19-41.	0.3	0
50	Reachability Graph of IOPT Petri Net Models Using CUDA C++ Parallel Application. IFIP Advances in Information and Communication Technology, 2020, , 93-100.	0.5	0