Patricia Derler

List of Publications by Citations

27 papers	693 citations	10 h-index	26 g-index
30 ext. papers	871 ext. citations	3.4 avg, IF	4.09 L-index

#	Paper	IF	Citations
27	Modeling Cyber‑Physical Systems. *Proceedings of the IEEE*, **2012**, 100, 13-28	14.3	403
26	Cyber-physical system design contracts **2013**,		59
25	Systems Engineering for Industrial Cyber‑Physical Systems Using Aspects. *Proceedings of the IEEE*, **2016**, 104, 997-1012	14.3	41
24	Aspect-oriented Modeling of Attacks in Automotive Cyber-Physical Systems **2014**,		38
23	Addressing Modeling Challenges in Cyber-Physical Systems **2011**,		25
22	Execution Strategies for PTIDES, a Programming Model for Distributed Embedded Systems **2009**,		20
21	Distributed Simulation of Heterogeneous and Real-Time Systems **2013**,		12
20	PTIDES: A Programming Model for Distributed Real-Time Embedded Systems **2008**,		12
19	Time in cyber-physical systems **2016**,		10
18	Model-based evaluation of GPS spoofing attacks on power grid sensors **2013**,		10
17	Reactors: A Deterministic Model for Composable Reactive Systems. *Lecture Notes in Computer Science*, **2020**, 59-85	0.9	10
16	Simulation and Implementation of the PTIDES Programming Model **2008**,		8
15	Timestamp Temporal Logic (TTL) for Testing the Timing of Cyber-Physical Systems. *Transactions on Embedded Computing Systems*, **2017**, 16, 1-20	1.8	7
14	Using Ptides and synchronized clocks to design distributed systems with deterministic system wide timing **2013**,		4
13	A Testbed to Verify the Timing Behavior of Cyber-Physical Systems **2017**,		4
12	Network latency and packet delay variation in cyber-physical systems **2011**,		4
11	Simulation of LET Models in Simulink and Ptolemy. *Lecture Notes in Computer Science*, **2010**, 83-92	0.9	4

List of Publications

10	Migration of Legacy Software Towards Correct-by-Construction Timing Behavior. *Lecture Notes in Computer Science*, **2011**, 55-76	0.9	4
9	Towards a reconfigurable distributed testbed to enable advanced research and development of timing and synchronization in cyber-physical systems **2015**,		3
8	Flexible Static Scheduling of Software with Logical Execution Time Constraints **2010**,		3
7	Validator Tool Suite. *Computational Analysis, Synthesis, and Design of Dynamic Models Series*, **2012**, 199-218		3
6	Could an Agile Requirements Analysis Be Automated?Lessons Learned from the Successful Overhauling of an Industrial Automation System. *Lecture Notes in Computer Science*, **2008**, 25-42	0.9	3
5	Endlessly Circulating Messages in IEEE 1588-2008 Systems **2014**,		2
4	Design of mechatronic systems through aspect and object-oriented modeling. *Automatisierungstechnik*, **2016**, 64, 244-252	0.8	1
3	Endlessly circulating messages in IEEE 1588-2008 systems **2014**,		1
2	Specification of precise timing in synchronous dataflow models **2016**,		1
1	5 Modeling and Simulation of TDL Applications. *Lecture Notes in Computer Science*, **2010**, 107-128	0.9	