Luigi Pomante

List of Publications by Year in Descending Order

61 papers	249 citations	8 h-index	12 g-index
83 ext. papers	401 ext. citations	1.7 avg, IF	3.31 L-index

#	Paper	IF	Citations
61	MONICA On-the-Job Technology-Enhanced Learning Environment: An Empirical Evaluation. *Lecture Notes in Networks and Systems*, **2022**, 54-64	0.5	
60	Design and management of image processing pipelines within CPS: acquired experience towards the end of the FitOptiVis ECSEL Project. *Microprocessors and Microsystems*, **2021**, 104350	2.4	0
59	A Model-Based Approach for Adaptable Middleware Evolution in WSN Platforms. *Journal of Sensor and Actuator Networks*, **2021**, 10, 20	3.8	3
58	Dynamic Partial Reconfiguration Profitability for Real-Time Systems. *IEEE Embedded Systems Letters* , **2021**, 13, 102-105	1	2
57	The CASPER user-centric approach for advanced service provisioning in mobile networks. *Microprocessors and Microsystems*, **2020**, 77, 103178	2.4	3
56	Lightweight localisation approach for WSNs: performance analysis and validation. *IET Wireless Sensor Systems*, **2020**, 10, 61-69	1.6	
55	Run-time Monitoring and Trace Analysis Methodology for Component-based Embedded Systems Design Flow **2020**,		1
54	Development of an extended topology-based lightweight cryptographic scheme for IEEE 802.15.4 wireless sensor networks. *International Journal of Distributed Sensor Networks*, **2020**, 16, 155014772095167	1.7	5
53	Aggregate Farming in the Cloud: The AFarCloud ECSEL project. *Microprocessors and Microsystems*, **2020**, 78, 103218	2.4	12
52	The ECSEL FRACTAL Project: A Cognitive Fractal and Secure edge based on a unique Open-Safe-Reliable-Low Power Hardware Platform **2020**,		2
51	Design and management of image processing pipelines within CPS: 2 years of experience from the FitOptiVis ECSEL Project **2020**,		2
50	SystemC-based electronic system-level design space exploration environment for dedicated heterogeneous multi-processor systems. *Microprocessors and Microsystems*, **2020**, 72, 102898	2.4	3
49	Benchmarking Analysis and Characterization of Hypervisors for Space Multicore Systems. *Journal of Aerospace Information Systems*, **2019**, 16, 500-511	1	3
48	SPOFS lave Powerlink on FPGA for Smart Sensors and Actuators Interfacing for Industry 4.0 Applications. *Energies*, **2019**, 12, 1633	3.1	6
47	The FitOptiVis ECSEL project **2019**,		10
46	Age & Gender Classifier for Edge Computing **2019**,		3
45	The AQUAS ECSEL Project Aggregated Quality Assurance for Systems: Co-Engineering Inside and Across the Product Life Cycle. *Microprocessors and Microsystems*, **2019**, 69, 54-67	2.4	7

44	A Lightweight, Hardware-Based Support for Isolation in Mixed-Criticality Network-on-Chip Architectures. *Advances in Science, Technology and Engineering Systems*, **2019**, 4, 561-573	0.3	1
43	Criticality-driven Design Space Exploration for Mixed-Criticality Heterogeneous Parallel Embedded Systems **2018**,		3
42	HEPSIM: An ESL HW/SW co-simulator/analysis tool for heterogeneous parallel embedded systems **2018**,		2
41	Criticality-aware Design Space Exploration for Mixed-Criticality Embedded Systems **2018**,		2
40	Safety of Physical Assets: A Ranking Method and Its GIS Implementation. *Lecture Notes in Computer Science*, **2018**, 219-232	0.9	2
39	TinyWIDS **2018**,		4
38	CC4CS **2018**,		4
37	WSN and GIS integration for a cost-effective real-time monitoring of landslides on railway stations and lines **2018**,		1
36	Wireless Communication Technologies for Safe Cooperative Cyber Physical Systems. *Sensors*, **2018**, 18,	3.8	4
35	Design Space Exploration for Mixed-Criticality Embedded Systems Considering Hypervisor-Based SW Partitions **2018**,		1
34	HEPSYCODE-RT **2018**,		6
33	The MegaM@Rt2 ECSEL project: MegaModelling at Runtime Scalable model-based framework for continuous development and runtime validation of complex systems. *Microprocessors and Microsystems*, **2018**, 61, 86-95	2.4	16
32	Simulation-Based Analysis of a Hardware Mechanism to Support Isolation in Mixed-Criticality Network on Chip **2017**,		2
31	A design methodology for soft-core platforms on FPGA with SMP Linux, OpenMP support, and distributed hardware profiling system. *Eurasip Journal on Embedded Systems*, **2017**, 2016,	2	6
30	The MegaM@Rt2 ECSEL Project: MegaModelling at Runtime Scalable Model-Based Framework for Continuous Development and Runtime Validation of Complex Systems **2017**,		4
29	QoE provisioning over mobile networks: The CASPER perspective **2017**,		1
28	A middleware architecture for QoE provisioning in Mobile Networks **2017**,		1
27	An Efficient Performance-Driven Approach for HW/SW Co-Design **2017**,		6

26	A renovated mobile agents middleware for WSN porting of Agilla to the TinyOS 2.x platform **2016**,		6
25	V2I Cooperation for Traffic Management with SafeCop **2016**,		8
24	Safe cooperative CPS: A V2I traffic management scenario in the SafeCOP project **2016**,		1
23	Energy Consumption Analysis and Design of Energy-Aware WSN Agents in fUML. *Lecture Notes in Computer Science*, **2015**, 1-17	0.9	6
22	Performance analysis of a lightweight localization algorithm for WSNs in a real scenario **2015**,		3
21	A Model-Driven approach for the development of an IDE for Spacecraft on-board software **2015**,		2
20	Design of a Non-intrusive Augmented Trumpet. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 108-115	0.2	
19	A Middleware Approach to Provide Security in IEEE 802.15.4 Wireless Sensor Networks **2013**,		1
18	WINSOME: A middleware platform for the provision of secure monitoring services over Wireless Sensor Networks **2013**,		8
17	System-level design space exploration for heterogeneous parallel dedicated systems **2013**,		1
16	Modeling and Timing Simulation of Agilla Agents for WSN Applications in Executable UML. *Lecture Notes in Computer Science*, **2013**, 300-311	0.9	2
15	HW/SW co-design of dedicated heterogeneous parallel systems: an extended design space exploration approach. *IET Computers and Digital Techniques*, **2013**, 7, 246-254	0.9	9
14	Definition and Development of a Topology-Based Cryptographic Scheme for Wireless Sensor Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2013**, 47-64	0.2	3
13	Exploiting Latest Technologies for RF Sounding Evolution. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2013**, 33-40	0.2	1
12	Model-driven agent generation approach for adaptable and resource-aware sensor node **2012**,		1
11	RF Sounding: Generating Sounds from Radio Frequencies **2012**,		1
10	System-level design space exploration for dedicated heterogeneous multi-processor systems **2011**,		9
9	A successful VISION: Video-oriented UWB based intelligent ubiquitous sensing **2011**,		1

List of Publications

8	Topology Optimization and Network Deployment Algorithm in WSNs for Mobile Agent-based Applications **2010**,		2
7	Agent-based scalable design of a cross-layer security framework for Wireless Sensor Networks Monitoring Applications **2009**,		5
6	**2008**,		7
5	Exploiting WSN for Audio Surveillance Applications: The VoWSN Approach **2008**,		4
4	. *IEEE Transactions on Computers*, **2006**, 55, 508-519	2.5	16
3	The design of reliable devices for mission-critical applications. *IEEE Transactions on Instrumentation and Measurement*, **2003**, 52, 1703-1712	5.2	4
2	Reliability Properties Assessment at System Level: A Co-Design Framework. *Journal of Electronic Testing: Theory and Applications (JETTA)*, **2002**, 18, 351-356	0.7	13
1	Secure Platform Over Wireless Sensor Networks		4