Sam Michiels

List of Publications by Year
in descending order

78 papers	671 citations	1162367 8 h-index	1125271 13 g-index
81 all docs	81 docs citations	81 times ranked	455 citing authors

#	Article	IF	Citations
1	Static: Low Frequency Energy Harvesting and Power Transfer for the Internet of Things. Frontiers in Signal Processing, 2022, 1, .	1.2	1
2	BoboLink: Low Latency and Low Power Communication for Intelligent Environments. , 2022, , .		0
3	OSLo: Optical Sensor Localization through Mesh Networked Cameras. , 2021, , .		0
4	Zero-Wire. GetMobile (New York, N Y), 2021, 25, 34-38.	0.7	2
5	Towards Context Aware Adaptive Deployment in ML Applications Using State Machines. , 2021, , .		0
6	Morphy. , 2021, , .		7
7	ReFrAEN: a Reconfigurable Vibration Analysis Framework for Constrained Sensor Nodes. , 2021, , .		1
8	Gestational weight gain prediction using privacy preserving federated learning. , 2021, 2021, 2170-2174.		1
9	Achieving deterministic and low-latency wireless connection with zero-wire. , 2020, , .		1
10	CRAM: Robust Medium Access Control for LPWAN using Cryptographic Frequency Hopping. , 2020, , .		5
11	Applying deep learning to reduce large adaptation spaces of self-adaptive systems with multiple types of goals. , 2020, , .		22
12	Simplifying CPS Application Development through Fine-grained, Automatic Timeout Predictions. ACM Transactions on Internet of Things, 2020, 1, 1-30.	3.4	1
13	Zero-wire. , 2020, , .		6
14	Towards Privacy-preserving Mobile Applications with Federated Learning. , 2019, , .		10
15	Khronos. , 2019, , .		4
16	Efficient Analysis of Large Adaptation Spaces in Self-Adaptive Systems using Machine Learning. , 2019, , .		34
17	Privacy preserving pregnancy weight gain management. , 2019, , .		2
18	Î¼PnP-WAN: Experiences with LoRa and its deployment in DR Congo. , 2017, , .		13

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19	Trusted Operations On Mobile Phones. , 2017, , .		1
20	Component-based Orchestration of Dynamic IaaS Applications. , 2016, , .		2
21	μPnP-WAN: Wide area plug and play sensing and actuation with LoRa. , 2016, , .		4
22	Dawn. , 2015, , .		1
23	Measuring and Modeling the Energy Cost of Reconfiguration in Sensor Networks. IEEE Sensors Journal, 2015, 15, 3381-3389.	2.4	12
24	μPnP-Mesh: The plug-and-play mesh network for the Internet of Things. , 2015, , .		20
25	<i>μ</i> PnP. , 2015, , .		27
26	SecLooCI: A comprehensive security middleware architecture for shared wireless sensor networks. Ad Hoc Networks, 2015, 25, 141-169.	3.4	17
27	Hitch Hiker. , 2015, , .		4
28	Enabling resource sharing in heterogeneous wireless sensor networks. , 2014, , .		2
29	Towards managing variability in the safety design of an automotive hall effect sensor. , 2014, , .		7
30	QoS prediction for web service compositions using kernel-based quantile estimation with online adaptation of the constant offset. Information Sciences, 2014, 268, 397-424.	4.0	22
31	Ensuring application integrity in shared sensing environments. , 2014, , .		3
32	Types in Their Prime: Sub-typing of Data in Resource Constrained Environments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 250-261.	0.2	1
33	Analysis of Sensor Network Operating System Performance Throughout the Software Life Cycle. , 2013, , .		5
34	Energy aware software evolution for Wireless Sensor Networks. , 2013, , .		7
35	Composition-Safe re-parametrization in Distributed Component-based WSN Applications. , 2013, , .		0
36	ACS: Specifying "Smart" Applications Using Sense-Process-Consume Flows. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Users as reconfigurable elements in distributed sensing applications. , 2012, , .		1
38	Building smart environments with LooCI. , 2012, , .		0
39	Design of an autonomous software platform for future symbiotic service management. , 2012, , .		0
40	A Component and Policy-Based Approach for Efficient Sensor Network Reconfiguration. , 2012, , .		8
41	Show me the money The importance of network effects for mobile application business models. , 2012, , .		2
42	StIgMa: Status information management for evolvable wireless sensor networks. , 2012, , .		1
43	LooCI: The Loosely-coupled Component Infrastructure. , 2012, , .		29
44	Enabling Massive Scale Sensing with the @LooCI Mobile Sensing Framework. , 2012, , .		1
45	A reconfigurable component model with semantic type system for dynamic WSN applications. Journal of Internet Services and Applications, 2012, 3, 277-290.	1.6	4
46	Applying a metadata level for concurrency in wireless sensor networks. Concurrency Computation Practice and Experience, 2012, 24, 1953-1962.	1.4	2
47	Building Wireless Sensor Network Applications with LooCI. , 2012, , 61-85.		0
48	SASHA: A Distributed Protocol for Secure Application Deployment in Shared Ad-Hoc Wireless Sensor Networks. , 2011, , .		4
49	Sensor Middleware to Support Diverse Data Qualities. , 2011, , .		3
50	A middleware platform to support river monitoring using wireless sensor networks. Journal of the Brazilian Computer Society, 2011, 17, 85-102.	0.8	37
51	On-demand attribute-based service discovery for mobile WSANs. , 2011, , .		1
52	Language and middleware support for dynamism in wireless sensor and actuator network applications. , 2011, , .		2
53	Advanced Sensor Network Software Deployment using Application-level Quality Goals. Journal of Software, 2011, 6, .	0.6	6
54	Policy-Driven Tailoring of Sensor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 20-35.	0.2	3

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55	Middleware for Adaptive Group Communication in Wireless Sensor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 59-74.	0.2	0
56	Middleware for resource sharing in multi-purpose Wireless Sensor Networks. , 2010, , .		12
57	Resource Management Middleware to Support Self Managing Wireless Sensor Networks. , 2010, , .		1
58	Towards fine-grained and application-centric access control for wireless sensor networks. , 2010, , .		7
59	QARI: Quality Aware Software Deployment for Wireless Sensor Networks. , 2010, , .		3
60	Applying a Multi-paradigm Approach to Implementing Wireless Sensor Network Based River Monitoring. , 2010, , .		9
61	A Secure Multi-Application Platform for Vehicle Telematics. , 2010, , .		3
62	MASY: MAnagement of Secret keYs for federated mobile wireless sensor networks. , 2010, , .		13
63	Building Wireless Sensor Network Applications with LooCI. International Journal of Mobile Computing and Multimedia Communications, 2010, 2, 38-64.	0.4	13
64	A Graph Based Approach to Supporting Reconfiguration in Wireless Sensor Networks. , 2009, , .		4
65	Fine-Grained Tailoring of Component Behaviour for Embedded Systems. Lecture Notes in Computer Science, 2009, , 156-167.	1.0	8
66	LooCI. , 2009, , .		66
67	Flexible integration of data qualities in wireless sensor networks. , 2009, , .		5
68	DARMA. , 2009, , .		7
69	DAVIM: Adaptable Middleware for Sensor Networks. IEEE Distributed Systems Online, 2008, 9, 1-1.	0.5	16
70	Dynamic reconfiguration using template based web service composition. , 2008, , .		29
71	A Software Architecture to Facilitate the Creation of DRM Systems. , 2007, , .		2
72	On the integration of sensor networks and general purpose IT infrastructure. , 2007, , .		5

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73	DAViM. , 2006, , .		29
74	Towards a software architecture for DRM. , 2005, , .		35
75	NeCoMan. , 2004, , .		9
76	Towards preserving correctness in self-managed software systems. , 2004, , .		3
77	Self-adapting concurrency. , 2002, , .		19
78	An AOP Case with Static and Dynamic Aspects. Lecture Notes in Computer Science, 1998, , 428-429.	1.0	12