

Toms Bures

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

789
citations

14
h-index

23
g-index

117
ext. papers

975
ext. citations

1.2
avg, IF

4.22
L-index

#	Paper	IF	Citations
93	Six Software Engineering Principles for Smarter Cyber-Physical Systems 2021 ,		1
92	Self-Adaptation 2.0 2021 ,		2
91	Managing latency in edgecloud environment. <i>Journal of Systems and Software</i> , 2021 , 172, 110872	3.3	3
90	Targeting uncertainty in smart CPS by confidence-based logic. <i>Journal of Systems and Software</i> , 2021 , 181, 111065	3.3	0
89	Special issue on software quality of advanced software applications. <i>Software Quality Journal</i> , 2020 , 28, 503-504	1.2	
88	Toward autonomically composable and context-dependent access control specification through ensembles. <i>International Journal on Software Tools for Technology Transfer</i> , 2020 , 22, 511-522	1.3	5
87	A language and framework for dynamic component ensembles in smart systems. <i>International Journal on Software Tools for Technology Transfer</i> , 2020 , 22, 497-509	1.3	9
86	PROMISE 2020 ,		7
85	Report of the 2nd International Workshop on Context-aware Autonomous and Smart Architectures (CASA@ECSA 2018). <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2020 , 45, 14-17	0.4	
84	Forming Ensembles at Runtime: A Machine Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020 , 440-456	0.9	2
83	Capturing Dynamicity and Uncertainty in Security and Trust via Situational Patterns. <i>Lecture Notes in Computer Science</i> , 2020 , 295-310	0.9	1
82	Using component ensembles for modeling autonomic component collaboration in smart farming 2020 ,		3
81	Experimenting with Adaptation in Smart Cyber-Physical Systems: A Model Problem and Testbed 2019 , 149-169		1
80	High-level mission specification for multiple robots 2019 ,		11
79	Continuous Data-driven Software Engineering - Towards a Research Agenda. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2019 , 44, 60-64	0.4	1
78	Tuning self-adaptation in cyber-physical systems through architectural homeostasis. <i>Journal of Systems and Software</i> , 2019 , 148, 37-55	3.3	12
77	Software Engineering for Smart Cyber-Physical Systems. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2019 , 43, 42-44	0.4	2

76	Performance Modelling of Smart Cyber-Physical Systems 2018 ,		7
75	Dynamic Security Specification Through Autonomic Component Ensembles. <i>Lecture Notes in Computer Science</i> , 2018 , 172-185	0.9	5
74	A Tool for Online Experiment-Driven Adaptation 2018 ,		2
73	Adapting a system with noisy outputs with statistical guarantees 2018 ,		11
72	Cost-Aware Stage-Based Experimentation: Challenges and Emerging Results 2018 ,		4
71	Unit testing performance with Stochastic Performance Logic. <i>Automated Software Engineering</i> , 2017 , 24, 139-187	1.5	12
70	Strengthening Adaptation in Cyber-Physical Systems via Meta-Adaptation Strategies. <i>ACM Transactions on Cyber-Physical Systems</i> , 2017 , 1, 1-25	2.3	7
69	Software Engineering for Smart Cyber-Physical Systems. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2017 , 42, 19-24	0.4	32
68	Patterns for Self-Adaptation in Cyber-Physical Systems 2017 , 331-368		17
67	Intelligent Ensembles - A Declarative Group Description Language and Java Framework 2017 ,		7
66	Self-Adaptation Based on Big Data Analytics: A Model Problem and Tool 2017 ,		22
65	2017 ,		4
64	Automated Dynamic Formation of Component Ensembles - Taking Advantage of Component Cooperation Locality 2017 ,		2
63	The Two-Hemisphere Modelling Approach to the Composition of Cyber-Physical Systems 2017 ,		3
62	Low-cost IoT, Big Data, and Cloud Platform for Developing Countries. <i>Lecture Notes in Computer Science</i> , 2017 , 285-299	0.9	1
61	Smart Coordination of Autonomic Component Ensembles in the Context of Ad-Hoc Communication. <i>Lecture Notes in Computer Science</i> , 2016 , 642-656	0.9	2
60	Statistical Approach to Architecture Modes in Smart Cyber Physical Systems 2016 ,		2
59	Component-based design of cyber-physical applications with safety-critical requirements. <i>Microprocessors and Microsystems</i> , 2016 , 42, 70-86	2.4	11

58	Logic-based modeling of information transfer in cyberphysical multi-agent systems. <i>Future Generation Computer Systems</i> , 2016 , 56, 124-139	7.5	9
57	Self-adaptation in software-intensive cyberphysical systems: From system goals to architecture configurations. <i>Journal of Systems and Software</i> , 2016 , 122, 378-397	3.3	34
56	Architectural Homeostasis in Self-Adaptive Software-Intensive Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2016 , 113-128	0.9	12
55	Towards systematic live experimentation in software-intensive systems of systems 2016 ,		2
54	Software Abstractions for Component Interaction in the Internet of Things. <i>Computer</i> , 2016 , 49, 50-59	1.6	23
53	Model problem and testbed for experiments with adaptation in smart cyber-physical systems 2016 ,		4
52	An Architecture Framework for Experimentations with Self-Adaptive Cyber-physical Systems 2015 ,		16
51	1st International Workshop on Software Engineering for Smart Cyber-Physical Systems (SEsCPS 2015) 2015 ,		4
50	Employing Domain Knowledge for Optimizing Component Communication 2015 ,		2
49	Formal Verification of Annotated Textual Use-Cases. <i>Computer Journal</i> , 2015 , 58, 1495-1529	1.3	2
48	Towards Intelligent Ensembles 2015 ,		2
47	The E-mobility Case Study. <i>Lecture Notes in Computer Science</i> , 2015 , 513-533	0.9	8
46	Software Engineering for Smart Cyber-Physical Systems -- Towards a Research Agenda. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering /ACM</i> , 2015 , 40, 28-32	0.4	24
45	The Invariant Refinement Method. <i>Lecture Notes in Computer Science</i> , 2015 , 405-428	0.9	11
44	The Autonomic Cloud. <i>Lecture Notes in Computer Science</i> , 2015 , 495-512	0.9	13
43	Supporting Performance Awareness in Autonomous Ensembles. <i>Lecture Notes in Computer Science</i> , 2015 , 291-322	0.9	3
42	Meta-Adaptation Strategies for Adaptation in Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2015 , 45-52	0.9	7
41	Logic-Based Modeling of Information Transfer in Cyber-Physical Multi-Agent Systems. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 42-52	0.2	

40	Formalization of Invariant Patterns for the Invariant Refinement Method. <i>Lecture Notes in Computer Science</i> , 2015 , 602-618	0.9	
39	Comparison of component frameworks for real-time embedded systems. <i>Knowledge and Information Systems</i> , 2014 , 40, 127-170	2.4	5
38	Architecture Adaptation Based on Belief Inaccuracy Estimation 2014 ,		4
37	Automated resolution of connector architectures using constraint solving (ARCAS method). <i>Software and Systems Modeling</i> , 2014 , 13, 843-872	1.9	2
36	Strengthening architectures of smart CPS by modeling them as runtime product-lines 2014 ,		8
35	DEECo: an ecosystem for cyber-physical systems 2014 ,		6
34	Towards Verification of Ensemble-Based Component Systems. <i>Lecture Notes in Computer Science</i> , 2014 , 41-60	0.9	2
33	Gossiping Components for Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2014 , 250-266	0.9	7
32	Towards Performance-Aware Engineering of Autonomic Component Ensembles. <i>Lecture Notes in Computer Science</i> , 2014 , 131-146	0.9	2
31	Interoperable domain-specific languages families for code generation. <i>Software - Practice and Experience</i> , 2013 , 43, 479-499	2.5	1
30	SOFA 2 Component Framework and Its Ecosystem. <i>Electronic Notes in Theoretical Computer Science</i> , 2013 , 295, 101-106	0.7	7
29	A Life Cycle for the Development of Autonomic Systems: The E-mobility Showcase 2013 ,		17
28	DEECO 2013 ,		56
27	Adaptive deployment in ad-hoc systems using emergent component ensembles 2013 ,		2
26	Design of ensemble-based component systems by invariant refinement 2013 ,		13
25	Towards Dependable Emergent Ensembles of Components: The DEECo Component Model 2012 ,		8
24	Performance Awareness in Component Systems: Vision Paper 2012 ,		4
23	Capturing performance assumptions using stochastic performance logic 2012 ,		18

22	Property networks allowing oracle-based mode-change propagation in hierarchical components 2012,		7
21	Verifying Temporal Properties of Use-Cases in Natural Language. <i>Lecture Notes in Computer Science</i> , 2012 , 350-367	0.9	2
20	CoDIT: Bridging the Gap between System-Level and Component-Level Development. <i>Studies in Computational Intelligence</i> , 2012 , 159-175	0.8	
19	Strengthening Component Architectures by Modeling Fine-Grained Entities 2011,		1
18	Comparison of Component Frameworks for Real-Time Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 21-36	0.9	15
17	From Textual Use-Cases to Component-Based Applications. <i>Studies in Computational Intelligence</i> , 2010 , 23-37	0.8	3
16	Using a product line for creating component systems 2009,		5
15	Bridging the Component-Based and Service-Oriented Worlds 2009,		1
14	Supporting Real-Life Applications in Hierarchical Component Systems. <i>Studies in Computational Intelligence</i> , 2009 , 107-118	0.8	3
13	Using Connectors to Address Transparent Distribution in Enterprise Systems [Pitfalls and Options]. <i>Studies in Computational Intelligence</i> , 2009 , 81-92	0.8	
12	A Component Model Family for Vehicular Embedded Systems 2008,		4
11	Using DSL for Automatic Generation of Software Connectors 2008,		3
10	Preserving Intentions in SOA Business Process Development. <i>Studies in Computational Intelligence</i> , 2008 , 59-72	0.8	
9	CoCoME in Fractal. <i>Lecture Notes in Computer Science</i> , 2008 , 357-387	0.9	8
8	CoCoME in SOFA. <i>Lecture Notes in Computer Science</i> , 2008 , 388-417	0.9	9
7	A Component Model for Control-Intensive Distributed Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2008 , 310-317	0.9	56
6	Runtime Support for Advanced Component Concepts 2007,		4
5	SOFA 2.0: Balancing Advanced Features in a Hierarchical Component Model 2006,		84

4	Eliminating Execution Overhead of Disabled Optional Features in Connectors. <i>Lecture Notes in Computer Science</i> , 2006 , 50-65	0.9	1
3	2005 ,		14
2	Communication Style Driven Connector Configurations. <i>Lecture Notes in Computer Science</i> , 2004 , 102-116.9		8
1	Using Connectors for Deployment of Heterogeneous Applications in the Context of OMG D&C Specification		349-360