

Petr Hnetynka

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.

59
papers

430
citations

9
h-index

18
g-index

74
ext. papers

526
ext. citations

1.2
avg, IF

3.52
L-index

#	Paper	IF	Citations
59	Managing latency in edgecloud environment. <i>Journal of Systems and Software</i> , 2021 , 172, 110872	3.3	3
58	Targeting uncertainty in smart CPS by confidence-based logic. <i>Journal of Systems and Software</i> , 2021 , 181, 111065	3.3	0
57	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
56	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
55	Forming Ensembles at Runtime: A Machine Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020 , 440-456	0.9	2
54	Capturing Dynamicity and Uncertainty in Security and Trust via Situational Patterns. <i>Lecture Notes in Computer Science</i> , 2020 , 295-310	0.9	1
53	Using component ensembles for modeling autonomic component collaboration in smart farming 2020 ,		3
52	Dynamic security rules for legacy systems 2019 ,		3
51	Experimenting with Adaptation in Smart Cyber-Physical Systems: A Model Problem and Testbed 2019 , 149-169		1
50	Dynamic Security Specification Through Autonomic Component Ensembles. <i>Lecture Notes in Computer Science</i> , 2018 , 172-185	0.9	5
49	Modeling of dynamic trust contracts for industry 4.0 systems 2018 ,		6
48	Guaranteed latency applications in edge-cloud environment 2018 ,		1
47	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
46	Intelligent Ensembles - A Declarative Group Description Language and Java Framework 2017 ,		7
45	Automated Dynamic Formation of Component Ensembles - Taking Advantage of Component Cooperation Locality 2017 ,		2
44	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
43	Statistical Approach to Architecture Modes in Smart Cyber Physical Systems 2016 ,		2

42	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
41	Model problem and testbed for experiments with adaptation in smart cyber-physical systems 2016 ,		4
40	An Architecture Framework for Experimentations with Self-Adaptive Cyber-physical Systems 2015 ,		16
39	Formal Verification of Annotated Textual Use-Cases. <i>Computer Journal</i> , 2015 , 58, 1495-1529	1.3	2
38	Towards Intelligent Ensembles 2015 ,		2
37	Verification of Use-Cases with FOAM Tool in Context of Cloud Providers 2015 ,		1
36	A Method for Semi-automated Generation of Test Scenarios Based on Use Cases 2015 ,		2
35	The Invariant Refinement Method. <i>Lecture Notes in Computer Science</i> , 2015 , 405-428	0.9	11
34	Meta-Adaptation Strategies for Adaptation in Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2015 , 45-52	0.9	7
33	Comparison of component frameworks for real-time embedded systems. <i>Knowledge and Information Systems</i> , 2014 , 40, 127-170	2.4	5
32	Automated resolution of connector architectures using constraint solving (ARCAS method). <i>Software and Systems Modeling</i> , 2014 , 13, 843-872	1.9	2
31	Strengthening architectures of smart CPS by modeling them as runtime product-lines 2014 ,		8
30	DEECo: an ecosystem for cyber-physical systems 2014 ,		6
29	Gossiping Components for Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2014 , 250-266	0.9	7
28	Recovering Traceability Links Between Code and Specification Through Domain Model Extraction. <i>Lecture Notes in Business Information Processing</i> , 2014 , 187-201	0.6	2
27	Interoperable domain-specific languages families for code generation. <i>Software - Practice and Experience</i> , 2013 , 43, 479-499	2.5	1
26	SOFA 2 Component Framework and Its Ecosystem. <i>Electronic Notes in Theoretical Computer Science</i> , 2013 , 295, 101-106	0.7	7
25	DEECO 2013 ,		56

24	Design of ensemble-based component systems by invariant refinement 2013 ,		13
23	Verifying Temporal Properties of Use-Cases in Natural Language. <i>Lecture Notes in Computer Science</i> , 2012 , 350-367	0.9	2
22	CoDIT: Bridging the Gap between System-Level and Component-Level Development. <i>Studies in Computational Intelligence</i> , 2012 , 159-175	0.8	
21	Using meta-modeling in design and implementation of component-based systems: the SOFA case study. <i>Software - Practice and Experience</i> , 2011 , 41, 1185-1201	2.5	2
20	Comparing the Service Component Architecture and Fractal Component Model. <i>Computer Journal</i> , 2011 , 54, 1026-1037	1.3	8
19	Automated Generation of Implementation from Textual System Requirements. <i>Lecture Notes in Computer Science</i> , 2011 , 34-47	0.9	2
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	JavaCompExt: Extracting Architectural Elements from Java Source Code 2009 ,		3
13	Supporting Real-Life Applications in Hierarchical Component Systems. <i>Studies in Computational Intelligence</i> , 2009 , 107-118	0.8	3
12	Using Connectors to Address Transparent Distribution in Enterprise Systems [Pitfalls and Options]. <i>Studies in Computational Intelligence</i> , 2009 , 81-92	0.8	
11	Experience with MOF-Based Meta-modeling of Component-Based Systems. <i>Communications in Computer and Information Science</i> , 2009 , 43-54	0.3	
10	Perspectives in component-based software engineering 2008 ,		1
9	Using DSL for Automatic Generation of Software Connectors 2008 ,		3
8	Preserving Intentions in SOA Business Process Development. <i>Studies in Computational Intelligence</i> , 2008 , 59-72	0.8	
7	CoCoME in SOFA. <i>Lecture Notes in Computer Science</i> , 2008 , 388-417	0.9	9

6	Runtime Support for Advanced Component Concepts 2007 ,		4
5	SOFA 2.0: Balancing Advanced Features in a Hierarchical Component Model 2006 ,		84
4	Dynamic Reconfiguration and Access to Services in Hierarchical Component Models. <i>Lecture Notes in Computer Science</i> , 2006 , 352-359	0.9	18
3	A model-driven environment for component deployment 2005 ,		4
2	Fighting Class Name Clashes in Java Component Systems. <i>Lecture Notes in Computer Science</i> , 2003 , 106-109		6
1	Towards an Automated Requirements-driven Development of Smart Cyber-Physical Systems. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,205, 59-68		1