Petr Hnetynka

List of Publications by Citations

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	SOFA 2.0: Balancing Advanced Features in a Hierarchical Component Model **2006**,		84
58	DEECO **2013**,		56
57	Self-adaptation in software-intensive cyber-physical systems: From system goals to architecture configurations. *Journal of Systems and Software*, **2016**, 122, 378-397	3.3	34
56	Dynamic Reconfiguration and Access to Services in Hierarchical Component Models. *Lecture Notes in Computer Science*, **2006**, 352-359	0.9	18
55	An Architecture Framework for Experimentations with Self-Adaptive Cyber-physical Systems **2015**,		16
54	Comparison of Component Frameworks for Real-Time Embedded Systems. *Lecture Notes in Computer Science*, **2010**, 21-36	0.9	15
53	Design of ensemble-based component systems by invariant refinement **2013**,		13
52	The Invariant Refinement Method. *Lecture Notes in Computer Science*, **2015**, 405-428	0.9	11
51	A language and framework for dynamic component ensembles in smart systems. *International Journal on Software Tools for Technology Transfer*, **2020**, 22, 497-509	1.3	9
50	CoCoME in SOFA. *Lecture Notes in Computer Science*, **2008**, 388-417	0.9	9
49	Strengthening architectures of smart CPS by modeling them as runtime product-lines **2014**,		8
48	Comparing the Service Component Architecture and Fractal Component Model. *Computer Journal*, **2011**, 54, 1026-1037	1.3	8
47	Strengthening Adaptation in Cyber-Physical Systems via Meta-Adaptation Strategies. *ACM Transactions on Cyber-Physical Systems*, **2017**, 1, 1-25	2.3	7
46	Intelligent Ensembles - A Declarative Group Description Language and Java Framework **2017**,		7
45	SOFA 2 Component Framework and Its Ecosystem. *Electronic Notes in Theoretical Computer Science*, **2013**, 295, 101-106	0.7	7
44	Gossiping Components for Cyber-Physical Systems. *Lecture Notes in Computer Science*, **2014**, 250-266	0.9	7
43	Meta-Adaptation Strategies for Adaptation in Cyber-Physical Systems. *Lecture Notes in Computer Science*, **2015**, 45-52	0.9	7

42	DEECo: an ecosystem for cyber-physical systems **2014**,		6
41	Fighting Class Name Clashes in Java Component Systems. *Lecture Notes in Computer Science*, **2003**, 106-109	0.9	6
40	Modeling of dynamic trust contracts for industry 4.0 systems **2018**,		6
39	Toward autonomically composable and context-dependent access control specification through ensembles. *International Journal on Software Tools for Technology Transfer*, **2020**, 22, 511-522	1.3	5
38	Comparison of component frameworks for real-time embedded systems. *Knowledge and Information Systems*, **2014**, 40, 127-170	2.4	5
37	Using a product line for creating component systems **2009**,		5
36	Dynamic Security Specification Through Autonomic Component Ensembles. *Lecture Notes in Computer Science*, **2018**, 172-185	0.9	5
35	Runtime Support for Advanced Component Concepts **2007**,		4
34	A model-driven environment for component deployment **2005**,		4
33	Model problem and testbed for experiments with adaptation in smart cyber-physical systems **2016**,		4
32	Dynamic security rules for legacy systems **2019**,		3
31	JavaCompExt: Extracting Architectural Elements from Java Source Code **2009**,		3
30	Using DSL for Automatic Generation of Software Connectors **2008**,		3
29	Using component ensembles for modeling autonomic component collaboration in smart farming **2020**,		3
28	Supporting Real-Life Applications in Hierarchical Component Systems. *Studies in Computational Intelligence*, **2009**, 107-118	0.8	3
27	From Textual Use-Cases to Component-Based Applications. *Studies in Computational Intelligence*, **2010**, 23-37	0.8	3
26	Managing latency in edge–cloud environment. *Journal of Systems and Software*, **2021**, 172, 110872	3.3	3
25	Smart Coordination of Autonomic Component Ensembles in the Context of Ad-Hoc Communication. *Lecture Notes in Computer Science*, **2016**, 642-656	0.9	2

24	Statistical Approach to Architecture Modes in Smart Cyber Physical Systems **2016**,		2
23	Automated resolution of connector architectures using constraint solving (ARCAS method). *Software and Systems Modeling*, **2014**, 13, 843-872	1.9	2
22	Formal Verification of Annotated Textual Use-Cases. *Computer Journal*, **2015**, 58, 1495-1529	1.3	2
21	Towards Intelligent Ensembles **2015**,		2
20	A Method for Semi-automated Generation of Test Scenarios Based on Use Cases **2015**,		2
19	Using meta-modeling in design and implementation of component-based systems: the SOFA case study. *Software - Practice and Experience*, **2011**, 41, 1185-1201	2.5	2
18	Forming Ensembles at Runtime: A Machine Learning Approach. *Lecture Notes in Computer Science*, **2020**, 440-456	0.9	2
17	Automated Dynamic Formation of Component Ensembles - Taking Advantage of Component Cooperation Locality **2017**,		2
16	Automated Generation of Implementation from Textual System Requirements. *Lecture Notes in Computer Science*, **2011**, 34-47	0.9	2
15	Verifying Temporal Properties of Use-Cases in Natural Language. *Lecture Notes in Computer Science* , **2012**, 350-367	0.9	2
14	Recovering Traceability Links Between Code and Specification Through Domain Model Extraction. *Lecture Notes in Business Information Processing*, **2014**, 187-201	0.6	2
13	Experimenting with Adaptation in Smart Cyber-Physical Systems: A Model Problem and Testbed **2019**, 149-169		1
12	Interoperable domain-specific languages families for code generation. *Software - Practice and Experience*, **2013**, 43, 479-499	2.5	1
11	Verification of Use-Cases with FOAM Tool in Context of Cloud Providers **2015**,		1
10	Bridging the Component-Based and Service-Oriented Worlds **2009**,		1
9	Perspectives in component-based software engineering **2008**,		1
8	Capturing Dynamicity and Uncertainty in Security and Trust via Situational Patterns. *Lecture Notes in Computer Science*, **2020**, 295-310	0.9	1
7	Towards an Automated Requirements-driven Development of Smart Cyber-Physical Systems. *Electronic Proceedings in Theoretical Computer Science, EPTCS*,205, 59-68		1

6	Guaranteed latency applications in edge-cloud environment **2018**,		1
5	Targeting uncertainty in smart CPS by confidence-based logic. *Journal of Systems and Software*, **2021**, 181, 111065	3.3	0
4	Preserving Intentions in SOA Business Process Development. *Studies in Computational Intelligence*, **2008**, 59-72	0.8	
3	Using Connectors to Address Transparent Distribution in Enterprise Systems Pitfalls and Options. *Studies in Computational Intelligence*, **2009**, 81-92	0.8	
2	Experience with MOF-Based Meta-modeling of Component-Based Systems. *Communications in Computer and Information Science*, **2009**, 43-54	0.3	
1	CoDIT: Bridging the Gap between System-Level and Component-Level Development. *Studies in Computational Intelligence*, **2012**, 159-175	0.8	