

# Krzysztof Czarnecki

## 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

4,210  
citations

32  
h-index

63  
g-index

94  
ext. papers

5,026  
ext. citations

1.6  
avg, IF

5.63  
L-index

#	Paper	IF	Citations
93	A Study of Feature Scattering in the Linux Kernel. <i>IEEE Transactions on Software Engineering</i> , <b>2021</b> , 47, 146-164	3.5	17
92	SMTIBEA: a hybrid multi-objective optimization algorithm for configuring large constrained software product lines. <i>Software and Systems Modeling</i> , <b>2019</b> , 18, 1447-1466	1.9	18
91	Example-driven modeling: on effects of using examples on structural model comprehension, what makes them useful, and how to create them. <i>Software and Systems Modeling</i> , <b>2019</b> , 18, 2213-2239	1.9	1
90	Synthesis and exploration of multi-level, multi-perspective architectures of automotive embedded systems. <i>Software and Systems Modeling</i> , <b>2019</b> , 18, 739-767	1.9	4
89	Data-efficient performance learning for configurable systems. <i>Empirical Software Engineering</i> , <b>2018</b> , 23, 1826-1867	3.3	31
88	The shape of feature code: an analysis of twenty C-preprocessor-based systems. <i>Software and Systems Modeling</i> , <b>2017</b> , 16, 77-96	1.9	16
87	Transferring Performance Prediction Models Across Different Hardware Platforms <b>2017</b> ,		19
86	Combining SAT Solvers with Computer Algebra Systems to Verify Combinatorial Conjectures. <i>Journal of Automated Reasoning</i> , <b>2017</b> , 58, 313-339	1	11
85	Clafer: unifying class and feature modeling. <i>Software and Systems Modeling</i> , <b>2016</b> , 15, 811-845	1.9	45
84	Supporting different process views through a Shared Process Model. <i>Software and Systems Modeling</i> , <b>2016</b> , 15, 1207-1233	1.9	2
83	Towards predicting feature defects in software product lines <b>2016</b> ,		8
82	A mathematical model of performance-relevant feature interactions <b>2016</b> ,		5
81	Coevolution of variability models and related software artifacts. <i>Empirical Software Engineering</i> , <b>2016</b> , 21, 1744-1793	3.3	30
80	A three-dimensional taxonomy for bidirectional model synchronization. <i>Journal of Systems and Software</i> , <b>2016</b> , 111, 298-322	3.3	18
79	MathCheck2: A SAT+CAS Verifier for Combinatorial Conjectures. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 117-133	0.9	5
78	Modeling and Optimizing Automotive Electric/Electronic (E/E) Architectures: Towards Making Clafer Accessible to Practitioners. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 447-464	0.9	3
77	Model synchronization based on triple graph grammars: correctness, completeness and invertibility. <i>Software and Systems Modeling</i> , <b>2015</b> , 14, 241-269	1.9	20

76	Where Do Configuration Constraints Stem From? An Extraction Approach and an Empirical Study. <i>IEEE Transactions on Software Engineering</i> , <b>2015</b> , 41, 820-841	3.5	54
75	Feature scattering in the large: a longitudinal study of Linux kernel device drivers <b>2015</b> ,		18
74	A Model Management Imperative: Being Graphical Is Not Sufficient, You Have to Be Categorical. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 154-170	0.9	1
73	What is a feature? <b>2015</b> ,		71
72	Modelling the Buried Bug report reading process to summarize bug reports. <i>Empirical Software Engineering</i> , <b>2015</b> , 20, 516-548	3.3	28
71	Modeling aerospace systems product lines in SysML <b>2015</b> ,		5
70	Empirical comparison of regression methods for variability-aware performance prediction <b>2015</b> ,		12
69	Cloned product variants: from ad-hoc to managed software product lines. <i>International Journal on Software Tools for Technology Transfer</i> , <b>2015</b> , 17, 627-646	1.3	15
68	A recommendation system for repairing violations detected by static architecture conformance checking. <i>Software - Practice and Experience</i> , <b>2015</b> , 45, 315-342	2.5	12
67	Performance Prediction of Configurable Software Systems by Fourier Learning (T) <b>2015</b> ,		31
66	Cost-Efficient Sampling for Performance Prediction of Configurable Systems (T) <b>2015</b> ,		66
65	SAT-based analysis of large real-world feature models is easy <b>2015</b> ,		18
64	MathCheck: A Math Assistant via a Combination of Computer Algebra Systems and SAT Solvers. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 607-622	0.9	3
63	A case study on consistency management of business and IT process models in banking. <i>Software and Systems Modeling</i> , <b>2014</b> , 13, 913-940	1.9	10
62	Variability mechanisms in software ecosystems. <i>Information and Software Technology</i> , <b>2014</b> , 56, 1520-1534	3.4	38
61	Efficient synthesis of feature models. <i>Information and Software Technology</i> , <b>2014</b> , 56, 1122-1143	3.4	37
60	Mining configuration constraints: static analyses and empirical results <b>2014</b> ,		76
59	Does feature scattering follow power-law distributions? <b>2014</b> ,		6

58	Scaling exact multi-objective combinatorial optimization by parallelization <b>2014</b> ,		24
57	Effects of using examples on structural model comprehension: a controlled experiment <b>2014</b> ,		9
56	A dataset of feature additions and feature removals from the Linux kernel <b>2014</b> ,		7
55	Comparison of exact and approximate multi-objective optimization for software product lines <b>2014</b> ,		43
54	Three Cases of Feature-Based Variability Modeling in Industry. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 302-319	0.9	31
53	An Exploratory Study of Cloning in Industrial Software Product Lines <b>2013</b> ,		149
52	Feature-oriented software evolution <b>2013</b> ,		32
51	A survey of variability modeling in industrial practice <b>2013</b> ,		217
50	Example-Driven Modeling: Model = Abstractions + Examples <b>2013</b> ,		11
49	A Study of Variability Models and Languages in the Systems Software Domain. <i>IEEE Transactions on Software Engineering</i> , <b>2013</b> , 39, 1611-1640	3.5	94
48	Visualization and exploration of optimal variants in product line engineering <b>2013</b> ,		35
47	Coevolution of variability models and related artifacts <b>2013</b> ,		34
46	Supporting Different Process Views through a Shared Process Model. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 20-36	0.9	3
45	Variability-aware performance prediction: A statistical learning approach <b>2013</b> ,		82
44	Managing cloned variants <b>2013</b> ,		77
43	Clafer tools for product line engineering <b>2013</b> ,		32
42	Partial Instances via Subclassing. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 344-364	0.9	5
41	Matching Business Process Workflows across Abstraction Levels. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 626-641	0.9	21

40	Recommending Refactorings to Reverse Software Architecture Erosion <b>2012</b> ,		23
39	Modelling the Hurried Bug report reading process to summarize bug reports <b>2012</b> ,		28
38	<b>2012</b> ,		26
37	Two Studies of Framework-Usage Templates Extracted from Dynamic Traces. <i>IEEE Transactions on Software Engineering</i> , <b>2012</b> , 38, 1464-1487	3.5	6
36	Cool features and tough decisions <b>2012</b> ,		177
35	Towards improving bug tracking systems with game mechanisms <b>2012</b> ,		11
34	Towards a catalog of variability evolution patterns <b>2012</b> ,		12
33	Usage scenarios for feature model synthesis <b>2012</b> ,		4
32	A user survey of configuration challenges in Linux and eCos <b>2012</b> ,		32
31	Modelling and multi-objective optimization of quality attributes in variability-rich software <b>2012</b> ,		32
30	Reverse engineering feature models <b>2011</b> ,		173
29	Logical structure extraction from software requirements documents <b>2011</b> ,		6
28	A study of non-Boolean constraints in variability models of an embedded operating system <b>2011</b> ,		23
27	Feature and Meta-Models in Clafer: Mixed, Specialized, and Coupled. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 102-122	0.9	31
26	From State- to Delta-Based Bidirectional Model Transformations: The Symmetric Case. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 304-318	0.9	40
25	Correctness of Model Synchronization Based on Triple Graph Grammars. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 668-682	0.9	31
24	Variability modeling in the real <b>2010</b> ,		95
23	Specifying overlaps of heterogeneous models for global consistency checking <b>2010</b> ,		21

22	From State- to Delta-Based Bidirectional Model Transformations. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 61-76	0.9	11
21	Evolution of the Linux Kernel Variability Model. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 136-150	0.9	46
20	Feature-to-Code Mapping in Two Large Product Lines. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 498-499	0.9	11
19	Fast extraction of high-quality framework-specific models from application code. <i>Automated Software Engineering</i> , <b>2009</b> , 16, 101-144	1.5	4
18	Engineering of Framework-Specific Modeling Languages. <i>IEEE Transactions on Software Engineering</i> , <b>2009</b> , 35, 795-824	3.5	28
17	Bidirectional Transformations: A Cross-Discipline Perspective. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 260-283	0.9	125
16	Sample Spaces and Feature Models: There and Back Again <b>2008</b> ,		47
15	On-demand materialization of aspects for application development <b>2008</b> ,		3
14	Efficient compilation techniques for large scale feature models <b>2008</b> ,		66
13	Design Space of Heterogeneous Synchronization. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 3-46	0.9	16
12	Feature Diagrams and Logics: There and Back Again <b>2007</b> ,		101
11	Automated Model-Based Configuration of Enterprise Java Applications <b>2007</b> ,		11
10	Automatic extraction of framework-specific models from framework-based application code <b>2007</b> ,		12
9	Verifying feature-based model templates against well-formedness OCL constraints <b>2006</b> ,		141
8	Framework-Specific Modeling Languages with Round-Trip Engineering. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 692-706	0.9	34
7	Synchronizing Cardinality-Based Feature Models and Their Specializations. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 331-348	0.9	14
6	Formalizing cardinality-based feature models and their specialization. <i>Software Process Improvement and Practice</i> , <b>2005</b> , 10, 7-29		313
5	Staged configuration through specialization and multilevel configuration of feature models. <i>Software Process Improvement and Practice</i> , <b>2005</b> , 10, 143-169		254

4	Mapping Features to Models: A Template Approach Based on Superimposed Variants. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 422-437	0.9	246
3	Staged Configuration Using Feature Models. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 266-283	0.9	155
2	FeaturePlugin <b>2004</b> ,		96
1	Generative Programming for Embedded Software: An Industrial Experience Report. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 156-172	0.9	43