

List of Publications

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The list is structured per guidelines of the Faculty of Mathematics and Physics, Charles University. Following the Charles University Rector's Directives 9/2014 and 17/2014, the list also distinguishes publications with impact factor (IF) (Sections C1A) and publications equivalent to publications with IF (Section C3B).

The list identifies publications registered in the WOS database of Thomson Reuters and in the SCOPUS database of Elsevier. Entries for publications with IF give the IF¹ data from WOS, and, where available, the SNIP² data from SCOPUS. Also where available, entries for conference publications give the CORE rank.³ The values listed are always the values relevant to the publication year.

B. Chapters in scientific monographs

- [1] L. Bulej, T. Bureš, I. Gerostathopoulos, V. Horký, J. Keznl, L. Marek, M. Tschaikowski, M. Tribastone, and P. Tůma: **“Supporting Performance Awareness in Autonomous Ensembles”**. In *Software Engineering for Collective Autonomic Systems*. LNCS 8998. Springer, 2015, pp. 291–322. DOI: 10.1007/978-3-319-16310-9_8. SCOPUS.
- [2] L. Bulej, T. Bureš, T. Coupaye, M. Děcký, P. Ježek, P. Parížek, F. Plášil, T. Poch, N. Rivierre, O. Šerý, and P. Tůma: **“CoCoME in Fractal”**. In *The Common Component Modeling Example*. LNCS 5153. Springer, 2008, pp. 357–387. DOI: 10.1007/978-3-540-85289-6_14. WOS, SCOPUS.

C. Original scientific publications

(C1) In foreign scientific journals

(C1A) Publications with IF

- [3] L. Bulej, T. Bureš, V. Horký, J. Kotrč, L. Marek, T. Trojánek, and P. Tůma: **“Unit Testing Performance with Stochastic Performance Logic”**. In *Automated Software Engineering* 24.1 (2017), pp. 139–187. DOI: 10.1007/s10515-015-0188-0. WOS 2015 IF 1.312, SCOPUS 2015 SNIP 2.647.
- [4] S. M. Blackburn, A. Diwan, M. Hauswirth, P. F. Sweeney, J. N. Amaral, T. Brecht, L. Bulej, C. Click, L. Eeckhout, S. Fischmeister, D. Frampton, L. J. Hendren, M. Hind, A. L. Hosking, R. E. Jones, T. Kalibera, N. Keynes, N. Nystrom, and A. Zeller: **“The Truth, The Whole Truth, and Nothing But the Truth: A Pragmatic Guide to Assessing Empirical Evaluations”**. In *ACM Transactions on Programming Languages and Systems* 38.4 (2016), 15:1–15:20. DOI: 10.1145/2983574. WOS 2015 IF 1.148, SCOPUS 2015 SNIP 3.141.
- [5] A. Podzimek, L. Bulej, L. Y. Chen, W. Binder, and P. Tůma: **“Robust Partial-Load Experiments with Showstopper”**. In *Future Generation Computer Systems* 64 (2016), pp. 15–38. DOI: 10.1016/j.future.2016.04.020. WOS 2015 IF 2.430, SCOPUS 2015 SNIP 3.323.
- [6] A. Sarimbekov, L. Stadler, L. Bulej, A. Sewe, A. Podzimek, Y. Zheng, and W. Binder: **“Workload Characterization of JVM Languages”**. In *Software: Practice and Experience* 46.8 (2016), pp. 1053–1089. DOI: 10.1002/spe.2337. WOS 2015 IF 0.652, SCOPUS 2015 SNIP 1.311.

¹Impact Factor, see <http://www.webofknowledge.com/jcr>.

²Source Normalized Impact per Paper is a citation indicator adjusted per subject field, in the SCOPUS database the 50th percentile is 0.52, the 75th percentile is 1.10, the 90th percentile is 1.77, see DOI: 10.1016/j.joi.2010.01.002.

³Computing Research and Education Association Conference Ranking is an occasionally updated ranking of computer science conferences on the scale of A-C, where A stands for “exceptional or excellent”, B for “good to very good”, C for “sound and satisfactory”, see <http://www.core.edu.au/coreportal>.

- [7] Y. Zheng, S. Kell, L. Bulej, H. Sun, and W. Binder: **“Comprehensive Multi-Platform Dynamic Program Analysis for Java and Android”**. In *IEEE Software* 33.4 (2016), pp. 55–63. DOI: 10.1109/MS.2015.151.
WOS 2015 IF 0.820, SCOPUS 2015 SNIP 1.745.
- [8] L. Marek, Y. Zheng, D. Ansaloni, L. Bulej, A. Sarimbekov, W. Binder, and P. Tůma: **“Introduction to Dynamic Program Analysis with DiSL”**. In *Science of Computer Programming* 98, Part 1 (2015), pp. 100–115. DOI: 10.1016/j.scico.2014.01.003.
WOS 2015 IF 0.828, SCOPUS 2015 SNIP 1.380.
- [9] Y. Zheng, L. Bulej, and W. Binder: **“Accurate Profiling in the Presence of Dynamic Compilation”**. In *ACM SIGPLAN Notices* 50.10 (2015), pp. 433–450. DOI: 10.1145/2858965.2814281.
WOS 2015 IF 0.488, SCOPUS 2015 SNIP 0.803.
Also in: **“Accurate Profiling in the Presence of Dynamic Compilation”**. In *Proc. 30th ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*. ACM, 2015, pp. 433–450. DOI: 10.1145/2814270.2814281. CORE 2014 A*, Acceptance 53 of 210 (25.2%), Distinguished Paper Award, Evaluated Artifact.
- [10] L. Marek, S. Kell, Y. Zheng, L. Bulej, W. Binder, P. Tůma, D. Ansaloni, A. Sarimbekov, and A. Sewe: **“ShadowVM: Robust and Comprehensive Dynamic Program Analysis for the Java Platform”**. In *ACM SIGPLAN Notices* 49.3 (2014), pp. 105–114. DOI: 10.1145/2637365.2517219.
WOS 2014 IF 0.657, SCOPUS 2014 SNIP 0.790.
Also in: **“ShadowVM: Robust and Comprehensive Dynamic Program Analysis for the Java Platform”**. In *Proc. 12th International Conference on Generative Programming: Concepts & Experiences (GPCE)*. ACM, 2013, pp. 105–114. DOI: 10.1145/2517208.2517219. SCOPUS, CORE 2013 B, Acceptance 20 of 59 (33.9%).
- [11] A. Sarimbekov, Y. Zheng, D. Ansaloni, L. Bulej, L. Marek, W. Binder, P. Tůma, and Z. Qi: **“Dynamic Program Analysis - Reconciling Developer Productivity and Tool Performance”**. In *Science of Computer Programming* 95, Part 3 (2014), pp. 344–358. DOI: 10.1016/j.scico.2014.03.014.
WOS 2014 IF 0.715, SCOPUS 2014 SNIP 1.672.
- [12] L. Bulej, T. Kalibera, and P. Tůma: **“Repeated Results Analysis for Middleware Regression Benchmarking”**. In *Performance Evaluation* 60.1–4 (2005), pp. 345–358. DOI: 10.1016/j.peva.2004.10.013.
WOS 2005 IF 0.756, SCOPUS 2005 SNIP 1.568.

(C3) In foreign peer reviewed proceedings

(C3B) Equivalent to publications with IF

In most areas of computer science, publications at selective conferences are considered as valuable as publications with IF. This section lists full length conference publications from conferences where submissions are reviewed by at least three reviewers and where at most one third of such submissions is accepted. The criteria were chosen because they can be objectively and independently verified (the parameters of the review process and the numbers of submitted and accepted publications are taken from the program committee chairman introduction in the corresponding proceedings) and because they reasonably correspond to the selectivity and citation impact of the computer science journals, see for example DOI: 10.1145/1743546.1743569.

- [13] Y. Zheng, L. Bulej, and W. Binder: **“An Empirical Study on Deoptimization in the Graal Compiler”**. In *Proc. 31st European Conference on Object-Oriented Programming (ECOOP)*. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2017, 30:1–30:30. DOI: 10.4230/LIPICs.ECOOP.2017.30.
CORE 2017 A, Acceptance 27 of 81 (33.3%).
- [14] A. Podzimek, L. Bulej, L. Y. Chen, W. Binder, and P. Tůma: **“Analyzing the Impact of CPU Pinning and Partial CPU Loads on Performance and Energy Efficiency”**. In *Proc. 15th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID)*. IEEE, 2015, pp. 1–10. DOI: 10.1109/CCGrid.2015.164.
SCOPUS, CORE 2014 A, Acceptance 69 of 268 (25.7%), Best Paper Runner-Up Award.
- [15] H. Sun, Y. Zheng, L. Bulej, A. Villazón, Z. Qi, P. Tůma, and W. Binder: **“A Programming Model and Framework for Comprehensive Dynamic Analysis on Android”**. In *Proc. 14th International Conference on Modularity (AOSD/MODULARITY)*. ACM, 2015, pp. 133–145. DOI: 10.1145/2724525.2724566.
CORE 2014 A (AOSD), Acceptance 11 of 29 (37.9%).
- [16] P. Libič, L. Bulej, V. Horký, and P. Tůma: **“On the Limits of Modeling Generational Garbage Collector Performance”**. In *Proc. 5th ACM/SPEC International Conference on Performance Engineering (ICPE)*. ACM, 2014, pp. 15–26. DOI: 10.1145/2568088.2568097.

- SCOPUS, Acceptance 14 of 56 (25%), Best Research Paper Award.
- [17] D. Ansaloni, S. Kell, Y. Zheng, L. Bulej, W. Binder, and P. Tůma: **“Enabling Modularity and Reuse in Dynamic Program Analysis Tools for the Java Virtual Machine”**. In *Proc. 27th European Conference on Object-Oriented Programming (ECOOP)*. LNCS 7920. Springer, 2013, pp. 352–377. DOI: 10.1007/978-3-642-39038-8_15.
WOS, SCOPUS, CORE 2013 A, Acceptance 29 of 116 (25%).
- [18] A. Podzimek, M. Děcký, L. Bulej, and P. Tůma: **“A Non-Intrusive Read-Copy-Update for UTS”**. In *Proc. 18th IEEE International Conference on Parallel and Distributed Systems (ICPADS)*. IEEE, 2012, pp. 482–489. DOI: 10.1109/ICPADS.2012.72.
WOS, SCOPUS, CORE 2013 B, Acceptance 87 of 294 (29.6%).
- [19] V. Babka, P. Tůma, and L. Bulej: **“Validating Model-Driven Performance Predictions on Random Software Systems”**. In *Research into Practice - Reality and Gaps: Proc. 6th International Conference on the Quality of Software Architectures (QOSA)*. LNCS 6093. Springer, 2010, pp. 3–19. DOI: 10.1007/978-3-642-13821-8_3.
WOS, SCOPUS, CORE 2010 A, Acceptance 11 of 32 (34.4%).
- [20] T. Kalibera, L. Bulej, and P. Tůma: **“Automated Detection of Performance Regressions: The Mono Experience”**. In *Proc. 20th IEEE Intl. Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS)*. IEEE Computer Society, 2005, pp. 183–190. DOI: 10.1109/MASCOT.2005.18.
WOS, SCOPUS, CORE 2008 A, Acceptance 46 of 151 (30.5%).

(C3C) Full-length publications in C3

This section lists full-length peer-reviewed publications from conferences and workshops with formal proceedings, where more than one third of submissions was accepted. In computer science, workshops with formal proceedings are similar to conferences, but tend to be topically more focused, and cater to a smaller audience. Consequently, the number of workshop submissions tends to be lower, and the acceptance rates higher.

- [21] P. Kubát, L. Bulej, T. Bureš, V. Horký, and P. Tůma: **“Adaptive Dispatch: A Pattern for Performance-Aware Software Self-Adaptation”**. In *Companion Proc. 9th ACM/SPEC International Conference on Performance Engineering*. 4th Workshop on Software Performance - Challenges (WOSP-C). ACM, 2018, pp. 195–198. DOI: 10.1145/3185768.3186406.
- [22] L. Bulej, V. Horký, and P. Tůma: **“Do We Teach Useful Statistics for Performance Evaluation?”** In *Companion Proc. 8th ACM/SPEC International Conference on Performance Engineering*. Workshop on Education and Practice of Performance Engineering (WEPPE). ACM, 2017, pp. 185–189. DOI: 10.1145/3053600.3053638.
- [23] P. Stefan, V. Horký, L. Bulej, and P. Tůma: **“Unit Testing Performance in Java Projects: Are We There Yet?”** In *Proc. 8th ACM/SPEC International Conference on Performance Engineering (ICPE)*. ACM, 2017, pp. 401–412. DOI: 10.1145/3030207.3030226.
Acceptance 24 of 65 (36.9%).
- [24] P. Libič, L. Bulej, V. Horký, and P. Tůma: **“Estimating the Impact of Code Additions on Garbage Collection Overhead”**. In *Proc. 12th European Performance Engineering Workshop (EPEW)*. LNCS 9272. Springer, 2015, pp. 130–145. DOI: 10.1007/978-3-319-23267-6_9.
WOS, SCOPUS, Acceptance 19 of 39 (48.7%).
- [25] A. Sarimbekov, A. Podzimek, L. Bulej, Y. Zheng, N. Ricci, and W. Binder: **“Characteristics of Dynamic JVM Languages”**. In *Proc. 7th ACM Workshop on Virtual Machines and Intermediate Languages (VMIL)*. ACM, 2013, pp. 11–20. DOI: 10.1145/2542142.2542144.
SCOPUS.
- [26] A. Sarimbekov, A. Sewe, S. Kell, Y. Zheng, W. Binder, L. Bulej, and D. Ansaloni: **“A Comprehensive Toolchain for Workload Characterization Across JVM Languages”**. In *Proc. 11th ACM SIGPLAN-SIGSOFT Workshop on Program Analysis for Software Tools and Engineering (PASTE)*. ACM, 2013, pp. 9–16. DOI: 10.1145/2462029.2462033.
SCOPUS, CORE 2013 B, Acceptance 7 of 13 (53.8%).
- [27] A. Sarimbekov, Y. Zheng, D. Ansaloni, L. Bulej, L. Marek, W. Binder, P. Tůma, and Z. Qi: **“Productive Development of Dynamic Program Analysis Tools with DiSL”**. In *Proc. 22nd Australasian Software Engineering Conference (ASWEC)*. IEEE, 2013, pp. 11–19. DOI: 10.1109/ASWEC.2013.12.
WOS, SCOPUS, CORE 2010 B, Acceptance 23 of 58 (39.7%).
- [28] Y. Zheng, L. Bulej, C. Zhang, S. Kell, D. Ansaloni, and W. Binder: **“Dynamic Optimization of Bytecode Instrumentation”**. In *Proc. 7th ACM Workshop on Virtual Machines and Intermediate Languages (VMIL)*. ACM, 2013, pp. 21–30. DOI: 10.1145/2542142.2542145.
SCOPUS.

- [29] L. Bulej, T. Bureš, J. Kezníkl, A. Koubková, A. Podzimek, and P. Tůma: **“Capturing Performance Assumptions Using Stochastic Performance Logic”**. In *Proc. 3rd ACM/SPEC International Conference on Performance Engineering (ICPE)*. ACM, 2012, pp. 311–322. DOI: 10.1145/2188286.2188345. SCOPUS, Acceptance 33 of 66 (50.0%).
- [30] P. Libič, P. Tůma, and L. Bulej: **“Issues in Performance Modeling of Applications with Garbage Collection”**. In *Proc. 1st Intl. W. on Quality of Service-Oriented Software Systems (QUASOSS)*. ACM, 2009, pp. 3–10. DOI: 10.1145/1596473.1596477. WOS, SCOPUS, Workshop at CORE A, Acceptance 7 of 9 (77.8%).
- [31] V. Babka, L. Bulej, M. Děcký, V. Holub, and P. Tůma: **“Teaching Operating Systems: Student Assignments and the Software Engineering Perspective”**. In *Proc. 30th International Conference on Software Engineering*. Intl. W. on Software Engineering in East and South Europe (SEESE). ACM, 2008, pp. 71–78. DOI: 10.1145/1370868.1370881. SCOPUS, Workshop at CORE 2008 A*, Acceptance 16 of 20 (80.0%).
- [32] L. Bulej and T. Bureš: **“Eliminating Execution Overhead of Disabled Optional Features in Connectors”**. In *Proc. 3rd European Workshop on Software Architectures (EWSA)*. LNCS 4344. Nantes, France: Springer, 2006, pp. 50–65. DOI: 10.1007/11966104_5. WOS, SCOPUS, Acceptance 18 of 53 (34.0%).
- [33] L. Bulej and T. Bureš: **“Using Connectors for Deployment of Heterogeneous Applications in the Context of OMG D&C Specification”**. In *Interoperability of Enterprise Software and Applications*. Springer, 2006, pp. 349–360. DOI: 10.1007/1-84628-152-0_31. WOS, Acceptance 35 of 85 (41.2%).
- [34] T. Kalibera, L. Bulej, and P. Tůma: **“Benchmark Precision and Random Initial State”**. In *Proc. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)*. SPECTS. SCS, 2005, pp. 853–862. ISBN: 978-1-62276-350-4. SCOPUS.
- [35] T. Kalibera, L. Bulej, and P. Tůma: **“Quality Assurance in Performance: Evaluating Mono Benchmark Results”**. In *Quality of Software Architectures and Software Quality: Proc. 2nd International Workshop on Software Quality (SOQUA)*. LNCS 3712. Springer, 2005, pp. 271–288. DOI: 10.1007/11558569_20. WOS 2005 IF 0.402, SCOPUS, Acceptance 6 of 17 (35.3%).
- [36] L. Bulej, T. Kalibera, and P. Tůma: **“Regression Benchmarking with Simple Middleware Benchmarks”**. In *Proc. 23rd IEEE International Performance, Computing, and Communications Conference*. Intl. W. on Middleware Performance (IWMP). IEEE, 2004, pp. 771–776. DOI: 10.1109/PCCC.2004.1395179. WOS, SCOPUS, Workshop at CORE 2008 B.
- [37] T. Kalibera, L. Bulej, and P. Tůma: **“Generic Environment for Full Automation of Benchmarking”**. In *Proc. 1st International Workshop on Software Quality (SOQUA)*. GI, 2004, pp. 125–132. ISBN: 3-88579-387-3.
- [38] A. Buble, L. Bulej, and P. Tůma: **“CORBA Benchmarking: A Course with Hidden Obstacles”**. In *Proc. 17th International Parallel and Distributed Processing Symposium*. Intl. W. on Performance Modeling, Evaluation, and Optimization of Parallel and Distributed Systems (PMEOPDS). 2003, pp. 1–6. DOI: 10.1109/IPDPS.2003.1213501. SCOPUS, Workshop at CORE 2008 A.

(C3D) Other publications in C3

This section lists peer-reviewed publications from conferences and workshops that were submitted to other than the main track. This includes short papers, tool papers, vision or position papers, and demo papers. The submissions are reviewed by at least two reviewers.

- [39] I. Gerostathopoulos, C. Prehofer, L. Bulej, T. Bures, V. Horoky, and P. Tuma: **“Cost-Aware Stage-Based Experimentation: Challenges and Emerging Results”**. In *Companion Proc. International Conference on Software Architecture (ICSA)*. IEEE, 2018, pp. 72–75. DOI: 10.1109/ICSA-C.2018.00027.
- [40] Y. Zheng, A. Rosà, L. Salucci, Y. Li, H. Sun, O. Javed, L. Bulej, L. Y. Chen, Z. Qi, and W. Binder: **“AutoBench: Finding Workloads That You Need Using Pluggable Hybrid Analyses (Short Paper)”**. In *Proc. 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*. IEEE, 2016, pp. 639–643. DOI: 10.1109/SANER.2016.70.
- [41] H. Sun, Y. Zheng, L. Bulej, W. Binder, and S. Kell: **“Custom Full-Coverage Dynamic Program Analysis for Android (Demo Paper)”**. In *Companion Proc. 2015 ACM SIGPLAN International Conference on Systems, Programming, Languages and Applications: Software for Humanity (SPLASH)*. ACM, 2015, pp. 7–8. DOI: 10.1145/2814189.2814190.

- [42] H. Sun, Y. Zheng, L. Bulej, S. Kell, and W. Binder: “**Analyzing Distributed Multi-Platform Java and Android Applications with ShadowVM (Demo Paper)**”. In *Proc. 13th Asian Symposium on Programming Languages and Systems (APLAS)*. LNCS 9458. Springer, 2015, pp. 356–365. DOI: 10.1007/978-3-319-26529-2_19. SCOPUS, CORE 2014 B.
- [43] A. Podzimek, L. Y. Chen, L. Bulej, W. Binder, and P. Tůma: “**Showstopper: The Partial CPU Load Tool (Tool Paper)**”. In *Proc. 22nd IEEE International Symposium on Modelling, Analysis Simulation of Computer and Telecommunication Systems (MASCOTS)*. IEEE, 2014, pp. 510–513. DOI: 10.1109/MASCOTS.2014.75. SCOPUS, CORE 2014 A.
- [44] L. Bulej, T. Bureš, V. Horký, and J. Keznlík: “**Adaptive Deployment in Ad-Hoc Systems Using Emergent Component Ensembles (Vision Paper)**”. In *Proc. 4th ACM/SPEC International Conference on Performance Engineering (ICPE)*. ACM, 2013, pp. 343–346. DOI: 10.1145/2479871.2479922. SCOPUS.
- [45] L. Marek, Y. Zheng, D. Ansaloni, L. Bulej, A. Sarimbekov, W. Binder, and Z. Qi: “**Introduction to Dynamic Program Analysis with DiSL (Demo Paper)**”. In *Proc. 4th ACM/SPEC International Conference on Performance Engineering (ICPE)*. ACM, 2013, pp. 429–430. DOI: 10.1145/2479871.2479940. SCOPUS.
- [46] L. Bulej, T. Bureš, V. Horký, J. Keznlík, and P. Tůma: “**Performance Awareness in Component Systems (Vision Paper)**”. In *Proc. 36th IEEE Annual Computer Software and Applications Conference Workshops. 4th IEEE Intl. W. on Component-Based Design of Resource-Constrained Systems (CORCS)*. 2012, pp. 514–519. DOI: 10.1109/COMPSACW.2012.96. SCOPUS, Workshop at CORE 2013 B.

E. Other scientific publications

(E1) Invited contributions

- [47] L. Bulej: “**Performance Testing in Software Development: Getting the Developers on Board (Invited Talk Abstract)**”. In *Companion Proc. 7th ACM/SPEC International Conference on Performance Engineering*. 5th Intl. W. on Large-Scale Testing (LT). ACM, 2016, pp. 9–9. DOI: 10.1145/2859889.2880448.
- [48] L. Bulej, Y. Zheng, and W. Binder: “**Beneath the Bytecode: Observing the JVM at Work Using Bytecode Instrumentation (Invited Talk Abstract)**”. In *Proc. 11th Workshop on Implementation, Compilation, Optimization of Object-Oriented Languages, Programs and Systems (ICOOOLPS)*. ACM, 2016, 1:1–1:1. DOI: 10.1145/3012408.3012409. Workshop at CORE 2014 A.
- [49] W. Binder, Y. Zheng, L. Bulej, H. Sun, and P. Tůma: “**Comprehensive Multi-Platform Dynamic Program Analysis for the Java and Dalvik Virtual Machines (Invited Paper)**”. In *Proc. 11th GI Multiconference on Software Engineering & Management (SEM)*. GI, 2015, pp. 127–128. ISBN: 978-3-88579-633-6.
- [50] Y. Zheng, H. Sun, L. Bulej, P. Tůma, and W. Binder: “**Comprehensive Multi-Platform Dynamic Program Analysis for the Java and Dalvik Virtual Machines (Invited Talk Abstract)**”. In *Proc. Intl. Conf. on Principles and Practices of Programming on the Java Platform: Virtual Machines, Languages, and Tools (PPPJ)*. ACM, 2014, pp. 4–4. DOI: 10.1145/2647508.2655186. CORE 2014 C.

(E2) Software

Software prototype construction is a necessary component of research activities, serving to collect experimental results and validate research hypotheses and providing tools for further research and development. The following list includes selected software prototypes related to the listed publications. Software is a product of long term team development, detailed authorship information is available in source code repositories.

- [51] “**Domain Specific Language for Java Bytecode Instrumentation (DiSL)**”. 2011–2018.
A domain-specific language and framework for program instrumentation developed in cooperation between University of Lugano, Charles University and Shanghai Jiao Tong University. Used in [10, 8, 11, 17, 27, 15, 49, 50]. Accepted as a project of the OW2 international open source consortium and the SPEC Research Group Tool Repository.
- [52] “**Stochastic Performance Logic Toolkit (SPL)**”. 2012–2015.

- A toolkit for introducing performance awareness throughout software development used in [1, 29, 3]. Used as a software platform for performance awareness experiments in the EU FP7 FET project ASCENS.
- [53] **“Benchmarking Automation Framework (BEEN)”**. 2004–2013.
A framework for coordinated execution of distributed benchmarks used in [37]. Accepted as a project of the OW2 international open source consortium.
 - [54] **“Random Program Generator (RPG)”**. 2009–2014.
A framework for validation of architectural performance models on artificial applications used in [19].
 - [55] **“Educational Operating System Prototype (Kalisto)”**. 2001–2015.
An educational operating system prototype used in [31].
 - [56] **“CORBA Benchmarking Suites (Xampler)”**. 1997–2011.
An extensive CORBA middleware benchmark suites that support research results in [12, 38, 36]. Significant interest in middleware benchmarking also attracted industrial research funding from leading CORBA vendors.

(E3) Other

Other contributions are listed for consistency with the list of citations.

- [57] S. M. Blackburn, A. Diwan, M. Hauswirth, P. F. Sweeney, J. N. Amaral, V. Babka, W. Binder, T. Brecht, L. Bulej, L. Eeckhout, S. Fischmeister, D. Frampton, R. Garner, A. Georges, L. J. Hendren, M. Hind, A. L. Hosking, R. Jones, T. Kalibera, P. Moret, N. Nystrom, V. Pankratius, and P. Tůma: **“Can You Trust Your Experimental Results?”** Tech. rep. 1. Evaluate Collaboratory, 2012, p. 8.
- [58] S. Becker, L. Bulej, T. Bureš, P. Hnětynka, L. Kapová, J. Kofroň, H. Koziolok, J. Kraft, R. Mirandola, J. Stammel, G. Tamburrelli, and M. Trifu: **“Q-ImPrESS Project Deliverable D2.1: Service Architecture Meta Model (SAMM)”**. Tech. rep. D2.1. Q-ImPrESS Consortium, 2008, p. 109.
- [59] L. Bulej and T. Bureš: **“A Connector Model Suitable for Automatic Generation of Connectors”**. Tech. rep. 2003/1. Dept. of SW Engineering, Charles University, 2003.

H. Theses

- [60] L. Bulej: **“Connector-Based Performance Data Collection for Component Applications”**. Doctoral Thesis. Charles University, 2007.