

List of Citations

Lubomír Bulej

May 2017

The list is based on information from common publication databases. Following the Charles University rector directives 9/2014 and 17/2014, the list contains citations from monographs, scientific periodicals and reviewed proceedings, excluding self citations where the applicant is among the authors of the citing publication. Also excluded are publications originating wholly from the applicant's department, foreign language publications (because this makes determining the nature of the citation difficult) and theses (because it is not clear whether theses qualify as monographs). The value of H-index based on the citing works listed here is 6.

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

1. A. Brunnert and H. Krcmar: **“Continuous Performance Evaluation and Capacity Planning Using Resource Profiles for Enterprise Applications”**. In *Journal of Systems and Software* 123 (2017), pp. 239–262. DOI: 10.1016/j.jss.2015.08.030. WOS, SCOPUS
2. C. Heger, A. V. Hoorn, D. Okanović, S. Siegl, and A. Wert: **“Expert-Guided Automatic Diagnosis of Performance Problems in Enterprise Applications”**. In *2016 12th European Dependable Computing Conference (EDCC)*. 2016, pp. 185–188. DOI: 10.1109/EDCC.2016.16
3. C. Vögele, A. van Hoorn, E. Schulz, W. Hasselbring, and H. Krcmar: **“WESSBAS: Extraction of Probabilistic Workload Specifications for Load Testing and Performance Prediction—a Model-Driven Approach for Session-Based Application Systems”**. In *Software & Systems Modeling* (2016), pp. 1–35. DOI: 10.1007/s10270-016-0566-5. SCOPUS
4. Q. Luo, D. Poshyvanyk, and M. Grechanik: **“Mining Performance Regression Inducing Code Changes in Evolving Software”**. In *Proc. MSR 2016*. ACM, 2016, pp. 25–36. DOI: 10.1145/2901739.2901765. SCOPUS
5. K. C. Foo, Z. M. Jiang, B. Adams, A. E. Hassan, Y. Zou, and P. Flora: **“An Industrial Case Study on the Automated Detection of Performance Regressions in Heterogeneous Environments”**. In *Proc. ICSE 2015*. 2015, pp. 159–168. DOI: 10.1109/ICSE.2015.144
6. Z. M. Jiang and A. E. Hassan: **“A Survey on Load Testing of Large-Scale Software Systems”**. In *IEEE Transactions on Software Engineering* PP.99 (2015), p. 32. DOI: 10.1109/TSE.2015.2445340. SCOPUS
7. A. Wert, M. Oehler, C. Heger, and R. Farahbod: **“Automatic Detection of Performance Anti-Patterns in Inter-Component Communications”**. In *Proc. QOSA 2014*. ACM, 2014, pp. 3–12. DOI: 10.1145/2602576.2602579
8. C. Heger, J. Happe, and R. Farahbod: **“Automated Root Cause Isolation of Performance Regressions During Software Development”**. In *Proc. ICPE 2013*. ACM, 2013, pp. 27–38. DOI: 10.1145/2479871.2479879
9. A. Wert: **“Performance Problem Diagnostics by Systematic Experimentation”**. In *Proc. WCOP 2013*. ACM, 2013, pp. 1–6. DOI: 10.1145/2465498.2465499
10. A. Wert, J. Happe, and L. Happe: **“Supporting Swift Reaction: Automatically Uncovering Performance Problems by Systematic Experiments”**. In *Proc. ICSE 2013*. IEEE Press, 2013, pp. 552–561. ISBN: 978-1-4673-3076-3. WOS
11. Z. M. Jiang, A. E. Hassan, G. Hamann, and P. Flora: **“Automated Performance Analysis of Load Tests”**. In *Proc. ICSM 2009*. 2009, pp. 125–134. DOI: 10.1109/ICSM.2009.5306331. WOS

12. S. Becker, M. Trifu, and R. Reussner: “**Towards Supporting Evolution of Service-Oriented Architectures Through Quality Impact Prediction**”. In *Proc. ASE ARAMIS 2008*. 2008, pp. 77–81. DOI: 10.1109/ASEW.2008.4686297. WOS
 13. M. Rohr, A. van Hoorn, S. Giesecke, J. Matevska, W. Hasselbring, and S. Alekseev: “**Trace-Context Sensitive Performance Profiling for Enterprise Software Applications**”. In *Proc. SIPEW 2008*. LNCS 5119. Springer, 2008, pp. 283–302. DOI: 10.1007/978-3-540-69814-2_18. WOS
 14. D. Fiedler, K. Walcott, T. Richardson, G. M. Kapfhammer, A. Amer, and P. K. Chrysanthis: “**Towards the Measurement of Tuple Space Performance**”. In *SIGMETRICS Performance Evaluation Review* 33.3 (2005), pp. 51–62. DOI: 10.1145/1111572.1111574
- 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
15. P. Parížek and O. Lhoták: “**Model Checking of Concurrent Programs with Static Analysis of Field Accesses**”. In *Science of Computer Programming* 98, Part 4 (2015), pp. 735–763. DOI: 10.1016/j.scico.2014.10.008
 16. J. A. Fernández-Madrigal, L. Llopis, A. Cruz-Martín, C. Galindo, and J. González-Jiménez: “**H: A Component-Based Specification Language for Heterogeneous Applications**”. In *Computer Standards & Interfaces* 35.1 (2013), pp. 30–49. DOI: 10.1016/j.csi.2012.03.003
 17. H. Aris and S. S. Salim: “**Properties for Component Model: The Definition Perspective**”. In *Computing and Informatics* 30.5 (2012), pp. 987–1010. ISSN: 1335-9150. WOS
 18. C. Canal and A. Cansado: “**Component Reconfiguration in Presence of Mismatch**”. In *Informatica* 35.1 (2011)
 19. P. Parížek and O. Lhoták: “**Identifying Future Field Accesses in Exhaustive State Space Traversal**”. In *Proc. ASE 2011*. IEEE Computer Society, 2011, pp. 93–102. DOI: 10.1109/ASE.2011.6100154
 20. A. Both, W. Zimmermann, and R. Franke: “**Model Checking of Component Protocol Conformance - Optimizations by Reducing False Negatives**”. In *Electronic Notes in Theoretical Computer Science*. Proc. FACS 2009 263 (2010), pp. 67–94. DOI: 10.1016/j.entcs.2010.05.005
 21. A. Cansado and C. Canal: “**On the Reconfiguration of Components in Presence of Mismatches**”. In *Proc. WASELF 2009*. Sistedes, 2009. ISSN: 1988–3455
 22. A. Plšek and J. Adámek: “**Carmen: Software Component Model Checker**”. In *Proc. QOSA 2008*. LNCS 5281. Springer, 2008, pp. 71–85. DOI: 10.1007/978-3-540-87879-7_5. WOS
 23. P. Vařeková, B. Zimmerová, P. Moravec, and I. Černá: “**Formal Verification of Systems with an Unlimited Number of Components**”. In *IET Software* 2.6 (2008), pp. 532–546. DOI: 10.1049/iet-sen:20080009. WOS
 24. P. Vařeková and I. Černá: “**Model Checking of Control-User Component-Based Parametrised Systems**”. In *Proc. CBSE 2008*. LNCS 5282. Springer, 2008, pp. 146–162. DOI: 10.1007/978-3-540-87891-9_10. WOS
- T. Kalibera, L. Bulej, and P. Tůma: “**Automated Detection of Performance Regressions: The Mono Experience**”. In *Proc. 20th IEEE International 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%)
25. A. Brunnert and H. Krcmar: “**Continuous Performance Evaluation and Capacity Planning Using Resource Profiles for Enterprise Applications**”. In *Journal of Systems and Software* 123 (2017), pp. 239–262. DOI: 10.1016/j.jss.2015.08.030. WOS, SCOPUS
 26. Q. Luo, D. Poshyvanyk, and M. Grechanik: “**Mining Performance Regression Inducing Code Changes in Evolving Software**”. In *Proc. MSR 2016*. ACM, 2016, pp. 25–36. DOI: 10.1145/2901739.2901765. SCOPUS
 27. J. Zhou and S. Li: “**Distance Based Root Cause Analysis and Change Impact Analysis of Performance Regressions**”. In *Mathematical Problems in Engineering* 2015 (2015), p. 9. DOI: 10.1155/2015/690829. WOS, SCOPUS

28. Z. M. Jiang and A. E. Hassan: “**A Survey on Load Testing of Large-Scale Software Systems**”. In *IEEE Transactions on Software Engineering* PP.99 (2015), p. 32. DOI: 10.1109/TSE.2015.2445340. SCOPUS
 29. P. Huang, X. Ma, D. Shen, and Y. Zhou: “**Performance Regression Testing Target Prioritization via Performance Risk Analysis**”. In *Proc. ICSE 2014*. ACM, 2014, pp. 60–71. DOI: 10.1145/2568225.2568232
 30. P. Lengauer, V. Bitto, F. Angerer, P. Grünbacher, and H. Mössenböck: “**Where Has All My Memory Gone? Determining Memory Characteristics of Product Variants Using Virtual-Machine-Level Monitoring**”. In *Proc. VAMOS 2014*. ACM, 2013, 13:1–13:8. DOI: 10.1145/2556624.2556628. SCOPUS
 31. J. Vitek and T. Kalibera: “**R3: Repeatability, Reproducibility and Rigor**”. In *ACM SIGPLAN Notices* 47 (4a 2012), pp. 30–36. DOI: 10.1145/2442776.2442781
 32. J. Vitek and T. Kalibera: “**Repeatability, Reproducibility, and Rigor in Systems Research**”. In *Proc. EMSOFT 2011*. ACM, 2011, pp. 33–38. DOI: 10.1145/2038642.2038650
 33. K. Foo, Z. M. Jiang, B. Adams, A. Hassan, Y. Zou, and P. Flora: “**Mining Performance Regression Testing Repositories for Automated Performance Analysis**”. In *Proc. QSIC 2010*. 2010, pp. 32–41. DOI: 10.1109/QSIC.2010.35
 34. N. Roy and D. C. Schmidt: “**Model-Driven Performance Evaluation of Web Application Portals**”. In *Model-Driven Domain Analysis and Software Development: Architectures and Functions*. 2010, pp. 407–437. DOI: 10.4018/978-1-61692-874-2.ch019. SCOPUS
- A. Buble, L. Bulej, and P. Tůma: “**CORBA Benchmarking: A Course with Hidden Obstacles**”. In *Proc. 17th International Parallel and Distributed Processing Symposium (IPDPS) PMEOPDS Workshop*. 2003, pp. 1–6. DOI: 10.1109/IPDPS.2003.1213501. SCOPUS, Workshop at CORE 2008 A
35. E. Bakshy and E. Frachtenberg: “**Design and Analysis of Benchmarking Experiments for Distributed Internet Services**”. In *Proc. WWW 2015*. ACM, 2015, pp. 108–118. DOI: 10.1145/2736277.2741082
 36. A. Hüick, J. Willkomm, and C. Bischof: “**Source Transformation for the Optimized Utilization of the Matlab Runtime System for Automatic Differentiation**”. In *Proc. CE 2014*. Lecture Notes in Computational Science and Engineering 105. Springer, 2015, pp. 115–131. DOI: 10.1007/978-3-319-22997-3_7
 37. A. Iosup, M. Capotă, T. Hegeman, Y. Guo, W. L. Ngai, A. L. Varbanescu, and M. Verstraaten: “**Towards Benchmarking IaaS and PaaS Clouds for Graph Analytics**”. In *Proc. 5th International Workshop on Big Data Benchmarking (WBDB)*. LNCS 8991. Springer, 2014, pp. 109–131. DOI: 10.1007/978-3-319-20233-4_11. WOS, SCOPUS
 38. A. Iosup, R. Prodan, and D. Epema: “**IaaS Cloud Benchmarking: Approaches, Challenges, and Experience**”. In *Cloud Computing for Data-Intensive Applications*. Springer, 2014, pp. 83–104. DOI: 10.1007/978-1-4939-1905-5_4
 39. J. Xu, H. Zhang, and Q. Li: “**An Execution Tracing Tool for Multi-Tier Web Applications**”. In *Proc. 2nd International Conference on Computer Science and Information Engineering (CSIE)*. Communications in Computer and Information Science 153. Springer, 2011, pp. 244–250. DOI: 10.1007/978-3-642-21411-0_40. WOS, SCOPUS
 40. L. Andrey, O. Fester, A. Lahmadi, A. Pras, and J. Schönwälder: “**Survey of SNMP Performance Analysis Studies**”. In *International Journal of Network Management* 19.6 (2009), pp. 527–548. DOI: 10.1002/nem.729. WOS, SCOPUS
 41. C. Esposito, S. Russo, and D. Di Crescenzo: “**Performance Assessment of OMG Compliant Data Distribution Middleware**”. In *Proc. IPDPS 2008*. 2008, pp. 1–8. DOI: 10.1109/IPDPS.2008.4536566. WOS, SCOPUS
 42. T. Parsons, A. Mos, M. Trofin, T. Gschwind, and J. Murphy: “**Extracting Interactions in Component-Based Systems**”. In *IEEE Transactions on Software Engineering* 34.6 (2008), pp. 783–799. DOI: 10.1109/TSE.2008.67. WOS, SCOPUS

43. T. Parsons, A. Mos, and J. Murphy: “**Non-Intrusive End-to-End Runtime Path Tracing for J2EE Systems**”. In *IEE Proceedings - Software* 153.4 (2006), p. 149. DOI: 10.1049/ip-sen:20050069. WOS, SCOPUS
 44. C. Demarey, G. Harbonnier, R. Rouvoy, and P. Merle: “**Benchmarking the Round-Trip Latency of Various Java-Based Middleware Platforms**”. In *Studia Informatica Universalis* 4.1 (2005), pp. 7–24
- 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)*. SCS, 2005, pp. 853–862. ISBN: 978-1-62276-350-4. SCOPUS
45. A. Brunnert and H. Krcmar: “**Continuous Performance Evaluation and Capacity Planning Using Resource Profiles for Enterprise Applications**”. In *Journal of Systems and Software* 123 (2017), pp. 239–262. DOI: 10.1016/j.jss.2015.08.030. WOS, SCOPUS
 46. A. B. de Oliveira, J.-C. Petkovich, and S. Fischmeister: “**How Much Does Memory Layout Impact Performance? A Wide Study**”. In *Proc. REPRODUCE 2014*. 2014, pp. 23–28
 47. A. B. de Oliveira, S. Fischmeister, A. Diwan, and M. Hauswirth: “**Why You Should Care About Quantile Regression**”. In *ACM SIGPLAN Notices* 48.4 (2013), pp. 207–217. ISSN: 0362-1340. WOS
 48. J. Larres, A. Potanin, and Y. Hirose: “**A Study of Performance Variations in the Mozilla Firefox Web Browser**”. In *Proc. ACSC 2013*. Australian Computer Society, Inc., 2013, pp. 3–12. ISBN: 978-1-921770-20-3
 49. J. Vanhie-Van Gerwen, S. Bouckaert, I. Moerman, and P. Demeester: “**Benchmarking for Wireless Sensor Networks**”. In *Proc. SENSORCOMM 2011*. 2011, pp. 134–139. ISBN: 978-1-61208-144-1
 50. N. Roy and D. C. Schmidt: “**Model-Driven Performance Evaluation of Web Application Portals**”. In *Model-Driven Domain Analysis and Software Development: Architectures and Functions*. 2010, pp. 407–437. DOI: 10.4018/978-1-61692-874-2.ch019. SCOPUS
 51. T. Mytkowicz, A. Diwan, M. Hauswirth, and P. F. Sweeney: “**Producing Wrong Data Without Doing Anything Obviously Wrong!**” In *ACM SIGPLAN Notices* 44.3 (2009), pp. 265–276. DOI: 10.1145/1508284.1508275. WOS
 52. T. Mytkowicz, A. Diwan, M. Hauswirth, and P. Sweeney: “**We Have It Easy, but Do We Have It Right ?**” In *Proc. IPDPS 2008*. 2008, pp. 1–7. DOI: 10.1109/IPDPS.2008.4536408. WOS
- 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
53. B.-S. Yang, J.-Y. Kim, and S.-M. Moon: “**Exceptionization: A Java VM Optimization for Non-Java Languages**”. In *ACM Trans. Archit. Code Optim.* 14.1 (2017), 5:1–5:25. DOI: 10.1145/3046681
 54. M. Kmjetin and N. Četić: “**Scripting Framework for Graphical Configuration Tool for Embedded Devices**”. In *Proc. 24th Telecommunications Forum (TELFOR)*. IEEE, 2016, pp. 1–4. DOI: 10.1109/TELFOR.2016.7818914
 55. E. Barrett, C. F. Bolz, L. Diekmann, and L. Tratt: “**Fine-Grained Language Composition: A Case Study**”. In *Proc. ECOOP 2016*. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2016, 3:1–3:27. DOI: <http://dx.doi.org/10.4230/LIPIcs.ECOOP.2016.3>
 56. S. Chidambaram, S. Saraswati, R. Ramachandra, J. B. Huttanagoudar, N. Hema, and R. Roopalakshmi: “**JVM Characterization Framework for Workload Generated as per Machine Learning Benchmark and Spark Framework**”. In *Proc. RTEICT*. 2016, pp. 1598–1602. DOI: 10.1109/RTEICT.2016.7808102
 57. N. Hema, K. G. Srinivasa, S. Chidambaram, S. Saraswat, S. Saraswati, R. Ramachandra, and J. B. Huttanagoudar: “**Performance Analysis of Java Virtual Machine for Machine Learning Workloads Using Apache Spark**”. In *Proceedings of the International Conference on Informatics and Analytics*. ACM, 2016, 125:1–125:7. DOI: 10.1145/2980258.2982117
 58. S. Marr, B. Daloz, and H. Mössenböck: “**Cross-Language Compiler Benchmarking: Are We Fast Yet?**” In *Proceedings of the 12th Symposium on Dynamic Languages*. ACM, 2016, pp. 120–131. DOI: 10.1145/2989225.2989232

59. S. Xu, D. Bremner, and D. Heidinga: “**Mining Method Handle Graphs for Efficient Dynamic JVM Languages**”. In *Proc. PPPJ 2015*. ACM, 2015, pp. 159–169. DOI: 10.1145/2807426.2807440
60. E. Barrett, C. F. Bolz, and L. Tratt: “**Approaches to Interpreter Composition**”. In *Computer Languages, Systems & Structures 44*, Part C (2015), pp. 199–217. DOI: 10.1016/j.cl.2015.03.001. WOS, SCOPUS

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%)

61. M. Brünink and D. S. Rosenblum: “**Mining Performance Specifications**”. In *Proc. 24th ACM SIGSOFT International Symposium on Foundations of Software Engineering*. ACM, 2016, pp. 39–49. DOI: 10.1145/2950290.2950314
62. K. Triantafyllidis, W. Aslam, E. Bondarev, J. J. Lukkien, and P. H. N. de With: “**ProMARTES: Accurate Network and Computation Delay Prediction for Component-Based Distributed Systems**”. In *Journal of Systems and Software* 117 (2016), pp. 450–470. DOI: 10.1016/j.jss.2016.03.068. WOS, SCOPUS
63. M. Babka, T. Balyo, and J. Kezníkl: “**Solving SMT Problems with a Costly Decision Procedure by Finding Minimum Satisfying Assignments of Boolean Formulas**”. In *Software Engineering Research, Management and Applications: Proc. SERA 2014*. Studies in Computational Intelligence 496. Springer, 2014, pp. 231–246. DOI: 10.1007/978-3-319-00948-3_15
64. A. Danciu, A. Chrusciel, A. Brunnert, and H. Krcmar: “**Performance Awareness in Java EE Development Environments**”. In *Computer Performance Engineering: Proc. EPEW 2015*. LNCS 9272. Springer, 2015, pp. 146–160. DOI: 10.1007/978-3-319-23267-6_10
65. C. Heger, J. Happe, and R. Farahbod: “**Automated Root Cause Isolation of Performance Regressions During Software Development**”. In *Proc. ICPE 2013*. ACM, 2013, pp. 27–38. DOI: 10.1145/2479871.2479879
66. M. Hölzl, N. Koch, M. Puviani, M. Wirsing, and F. Zambonelli: “**The Ensemble Development Life Cycle and Best Practices for Collective Autonomous Systems**”. In *Software Engineering for Collective Autonomous Systems*. LNCS 8998. Springer, 2015, pp. 325–354. DOI: 10.1007/978-3-319-16310-9_9

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

67. S. K. Tesfatsion, E. Wadbro, and J. Tordsson: “**Autonomic Resource Management for Optimized Power and Performance in Multi-Tenant Clouds**”. In *2016 IEEE International Conference on Autonomic Computing (ICAC)*. 2016, pp. 85–94. DOI: 10.1109/ICAC.2016.32
68. S. A. R. Shah, A. H. Jaikar, S. Bae, and S.-Y. Noh: “**Improve Performance and Throughput of VMs for Scientific Workloads in a Cloud Environment**”. In *Proc. PlatCon 2016*. 2016, pp. 1–6. DOI: 10.1109/PlatCon.2016.7456802
69. F. Pascual and K. Rządca: “**Partition with Side Effects**”. In *Intl. Conf. on High Performance Computing (HiPC)*. IEEE, 2015, pp. 295–304. DOI: 10.1109/HiPC.2015.52
70. J. von Kistowski, J. Beckett, K.-D. Lange, H. Block, J. A. Arnold, and S. Kounev: “**Energy Efficiency of Hierarchical Server Load Distribution Strategies**”. In *Proc. MASCOTS 2015*. IEEE, 2015, pp. 75–84. DOI: 10.1109/MASCOTS.2015.11

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. 1.0. Q-ImPRESS Consortium, 2008, p. 109

71. H. Koziolok, B. Schlich, S. Becker, and M. Hauck: “**Performance and Reliability Prediction for Evolving Service-Oriented Software Systems**”. In *Empirical Software Engineering* 18.4 (2012), pp. 746–790. DOI: 10.1007/s10664-012-9213-0. WOS, SCOPUS

72. B. Klatt, C. Rathfelder, and S. Kounev: **“Integration of Event-Based Communication in the Palladio Software Quality Prediction Framework”**. In *Proc. CompArch 2011*. ACM, 2011, pp. 43–52. DOI: 10.1145/2000259.2000268. SCOPUS
73. H. Koziolok, B. Schlich, C. Bilich, R. Weiss, S. Becker, K. Krogmann, M. Trifu, R. Mirandola, and A. Koziolok: **“An Industrial Case Study on Quality Impact Prediction for Evolving Service-Oriented Software”**. In *Proceedings of the 33rd International Conference on Software Engineering*. ACM, 2011, pp. 776–785. DOI: 10.1145/1985793.1985902. WOS, SCOPUS
74. J. Stammel and M. Trifu: **“Tool-Supported Estimation of Software Evolution Effort in Service Oriented Systems”**. In *Proc. CSMR 2011*. CEUR Workshop Proceedings, 2011, pp. 56–63. ISSN: 1613-0073, SCOPUS
- 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%)
75. A. D. Salov, H. S. Park, S. Han, and D. Lee: **“An Effective Method of Sharing Heterogeneous Components of OPRoS and RTM”**. in *Journal of Electrical Engineering and Technology* 9.2 (2014), pp. 755–761. DOI: 10.5370/JEET.2014.9.2.755. WOS
76. P. Martinez, C. Cuevas, and J. Drake: **“RT-D&C: Deployment Specification of Real-Time Component-Based Applications”**. In *Proc. SEAA 2010*. 2010, pp. 147–155. DOI: 10.1109/SEAA.2010.22
77. A. Heydarnoori: **“Deploying Component-Based Applications: Tools and Techniques”**. In *Software Engineering Research, Management and Applications*. Studies in Computational Intelligence 150. Springer, 2008, pp. 29–42. DOI: 10.1007/978-3-540-70561-1_3. WOS
78. A. Heydarnoori, F. Mavaddat, and F. Arbab: **“Towards an Automated Deployment Planner for Composition of Web Services as Software Components”**. In *Electronic Notes in Theoretical Computer Science*. Proceedings of the International Workshop on Formal Aspects of Component Software (FACS 2005) 160 (2006), pp. 239–253. DOI: 10.1016/j.entcs.2006.05.026
- 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
79. D. G. Feitelson: **“From Repeatability to Reproducibility and Corroboration”**. In *SIGOPS Oper. Syst. Rev.* 49.1 (2015), pp. 3–11. DOI: 10.1145/2723872.2723875. SCOPUS
80. T. Hoefler and R. Belli: **“Scientific Benchmarking of Parallel Computing Systems: Twelve Ways to Tell the Masses When Reporting Performance Results”**. In *Proc. SC 2015*. ACM, 2015, 73:1–73:12. DOI: 10.1145/2807591.2807644
81. A. S. Harji, P. A. Buhr, and T. Brecht: **“Our Troubles with Linux Kernel Upgrades and Why You Should Care”**. In *SIGOPS Oper. Syst. Rev.* 47.2 (2013), pp. 66–72. DOI: 10.1145/2506164.2506175
- 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 (COMPSAC) CORCS Workshop*. 2012, pp. 514–519. DOI: 10.1109/COMPSACW.2012.96. SCOPUS, Workshop at CORE 2013 B
82. D. B. Abeywickrama, J. Combaz, V. Horký, J. Keznlík, J. Kofroň, A. L. Lafuente, M. Loreti, A. Margheri, P. Mayer, V. Monreale, U. Montanari, C. Pincioli, P. Tůma, A. Vandin, and E. Vassev: **“Tools for Ensemble Design and Runtime”**. In *Software Engineering for Collective Autonomic Systems*. LNCS 8998. Springer, 2015, pp. 429–448. DOI: 10.1007/978-3-319-16310-9_13. SCOPUS
83. M. Hölzl, N. Koch, M. Puviani, M. Wirsing, and F. Zambonelli: **“The Ensemble Development Life Cycle and Best Practices for Collective Autonomic Systems”**. In *Software Engineering for Collective Autonomic Systems*. LNCS 8998. Springer, 2015, pp. 325–354. DOI: 10.1007/978-3-319-16310-9_9
84. M. Babka, T. Balyo, and J. Keznlík: **“Solving SMT Problems with a Costly Decision Procedure by Finding Minimum Satisfying Assignments of Boolean Formulas”**. In *Software Engineering Research, Management and Applications: Proc. SERA 2014*. Studies in Computational Intelligence 496. Springer, 2014, pp. 231–246. DOI: 10.1007/978-3-319-00948-3_15

- L. Bulej, T. Kalibera, and P. Tůma: “**Regression Benchmarking with Simple Middleware Benchmarks**”. In *Proc. 23rd IEEE International Conference on Performance, Computing, and Communications (IPCCC) IWMP Workshop*. IEEE, 2004, pp. 771–776. DOI: 10.1109/PCCC.2004.1395179. WOS, SCOPUS, Workshop at CORE 2008 B
85. A. Hück, J. Willkomm, and C. Bischof: “**Source Transformation for the Optimized Utilization of the Matlab Runtime System for Automatic Differentiation**”. In *Proc. CE 2014*. Lecture Notes in Computational Science and Engineering 105. Springer, 2015, pp. 115–131. DOI: 10.1007/978-3-319-22997-3_7
86. K. Foo, Z. M. Jiang, B. Adams, A. Hassan, Y. Zou, and P. Flora: “**Mining Performance Regression Testing Repositories for Automated Performance Analysis**”. In *Proc. QSIC 2010*. 2010, pp. 32–41. DOI: 10.1109/QSIC.2010.35
87. M. Procházka, A. Madan, J. Vitek, and W. Liu: “**RTJBench: A Real-Time Java Benchmarking Framework**”. In *Studia Informatica Universalis* 4.1 (2005), pp. 73–82
- 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
88. M. Procházka, A. Madan, J. Vitek, and W. Liu: “**RTJBench: A Real-Time Java Benchmarking Framework**”. In *Studia Informatica Universalis* 4.1 (2005), pp. 73–82
89. D. Westermann, J. Happe, M. Hauck, and C. Heupel: “**The Performance Cockpit Approach: A Framework For Systematic Performance Evaluations**”. In *Proc. SEAA 2010*. 2010, pp. 31–38. DOI: 10.1109/SEAA.2010.24
90. D. Westermann and J. Happe: “**Towards Performance Prediction of Large Enterprise Applications Based on Systematic Measurements**”. In *Proc. WCOP 2010*. 2010, pp. 71–78
- L. Bulej, T. Bureš, I. Gerostathopoulos, V. Horký, J. Keznickl, 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
91. M. Hölzl, N. Koch, M. Puviani, M. Wirsing, and F. Zambonelli: “**The Ensemble Development Life Cycle and Best Practices for Collective Autonomic Systems**”. In *Software Engineering for Collective Autonomic Systems*. LNCS 8998. Springer, 2015, pp. 325–354. DOI: 10.1007/978-3-319-16310-9_9
92. P. Mayer, J. Velasco, A. Klarl, R. Hennicker, M. Puviani, F. Tiezzi, R. Pugliese, J. Keznickl, and T. Bureš: “**The Autonomic Cloud**”. In *Software Engineering for Collective Autonomic Systems*. LNCS 8998. Springer, 2015, pp. 495–512. DOI: 10.1007/978-3-319-16310-9_16
- 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%)
93. F. Willnecker and H. Krcmar: “**Optimization of Deployment Topologies for Distributed Enterprise Applications**”. In *Proc. QOSA 2016*. 2016. DOI: 10.1109/QoSA.2016.11
94. F. Willnecker, A. Brunnert, B. Koch-Kemper, and H. Krcmar: “**Full-Stack Performance Model Evaluation Using Probabilistic Garbage Collection Simulation**”. In *Softwaretechnik-Trends* 35.3 (2015), pp. 1–3. ISSN: ISSN 0720-8928
- 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
95. X. Ren and Y. Zhangxu: “**Generational Garbage Collection Algorithm Based on Lifespan Prediction**”. In *Proc. 4th Intl. Conference on Future Internet of Things and Cloud Workshops (FiCloudW)*. 2016, pp. 183–187. DOI: 10.1109/W-FiCloud.2016.47
96. J. G. Son, J.-W. Kang, J.-H. An, H.-J. Ahn, H.-J. Chun, and J.-G. Kim: “**Parallel Job Processing Technique for Real-Time Big-Data Processing Framework**”. In *Proc. Intl. Conf. on Research in Adaptive and Convergent Systems*. ACM, 2016, pp. 226–229. DOI: 10.1145/2987386.2987429

- L. Bulej, T. Bureš, V. Horký, and J. Keznikl: “**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
97. P. Mayer, J. Velasco, A. Klarl, R. Hennicker, M. Puviani, F. Tiezzi, R. Pugliese, J. Keznikl, and T. Bureš: “**The Autonomic Cloud**”. In *Software Engineering for Collective Autonomic Systems*. LNCS 8998. Springer, 2015, pp. 495–512. DOI: 10.1007/978-3-319-16310-9_16
98. P. Mayer, A. Klarl, R. Hennicker, M. Puviani, F. Tiezzi, R. Pugliese, J. Keznikl, and T. Bureš: “**The Autonomic Cloud: A Vision of Voluntary, Peer-2-Peer Cloud Computing**”. In *Proc. SASOW 2013*. 2013, pp. 89–94. DOI: 10.1109/SASOW.2013.16
- 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%)
99. M. J. Steindorfer and J. J. Vinju: “**Performance Modeling of Maximal Sharing**”. In *Proceedings of the 7th ACM/SPEC on International Conference on Performance Engineering*. ACM, 2016, pp. 135–146. DOI: 10.1145/2851553.2851566
100. D. Liang, R. Chen, and H. Y. Sun: “**DroidMonitor: A High-Level Programming Model for Dynamic API Monitoring on Android**”. In *Proc. NSCE 2014*. CRC Press, 2015, pp. 93–96. DOI: 10.1201/b18660-20
- 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%)
101. S. Xu, D. Bremner, and D. Heidinga: “**Mining Method Handle Graphs for Efficient Dynamic JVM Languages**”. In *Proc. PPPJ 2015*. ACM, 2015, pp. 159–169. DOI: 10.1145/2807426.2807440
102. W. H. Li, D. R. White, and J. Singer: “**JVM-Hosted Languages: They Talk the Talk, but Do They Walk the Walk?**” In *Proc. PPPJ 2013*. ACM, 2013, pp. 101–112. DOI: 10.1145/2500828.2500838
- 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
103. M. Jaber, Y. Falcone, K. Dak-Al-Bab, J. Abou-Jaoudeh, and M. El-Katerji: “**A High-Level Modeling Language for the Efficient Design, Implementation, and Testing of Android Applications**”. In *International Journal on Software Tools for Technology Transfer* (2016), pp. 1–18. DOI: 10.1007/s10009-016-0441-2
- 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
104. J. Fu, G. Jin, L. Zhang, and J. Wang: “**CAOS: Combined Analysis with Online Sifting for Dynamic Compilation Systems**”. In *Proc. CF 2016*. ACM, 2016, pp. 110–118. DOI: 10.1145/2903150.2903151. SCOPUS
- 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%)
105. D. Kim, S. Kim, and J. Ryou: “**Design and Implementation of User-Level Dynamic Binary Instrumentation on ARM Architecture**”. In *The Journal of Supercomputing* (2016), pp. 1–13. DOI: 10.1007/s11227-016-1777-9

- 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
106. F. Marchand de Kerchove, J. Noyé, and M. Südholt: **“Towards Modular Instrumentation of Interpreters in JavaScript”**. In *Proc. MODULARITY FOAL 2015*. ACM, 2015, pp. 64–69. DOI: 10.1145/2735386.2736753
- 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%)
107. D. Okanović and M. Vidaković: **“Evaluation of Alternative Instrumentation Frameworks”**. In *Proc. SSP 2014*. 2014, pp. 83–90
- 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
108. C. Xiang, Z. Qi, and W. Binder: **“Flexible and Extensible Runtime Verification for Java (Extended Version)”**. In *International Journal of Software Engineering and Knowledge Engineering* 25 (09n10 2015), pp. 1595–1609. DOI: 10.1142/S0218194015400343. WOS, SCOPUS
- 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
109. W. R. Otte, A. Gokhale, D. C. Schmidt, and J. Willemsen: **“Infrastructure for Component-Based DDS Application Development”**. In *ACM SIGPLAN Notices* 47.3 (2012), pp. 53–61. DOI: 10.1145/2189751.2047872. WOS