

List of Publications

Jan Kofroň

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The list is divided into three parts: (i) Publications in international journals with impact factor, (ii) proceedings of international conferences and workshops, international journals without impact factor, and (iii) software artifacts. The journal impact factors are included at each publication. For conference publications, its CORE-2017 or CORE-2018 rating is specified if rated A or B. For selected CORE-B conferences, I also included the acceptance ratio of papers for the particular year (ACC in brackets).

A. Scientific monographs

B. Chapters in scientific monographs

1. Bureš T., et. al (2008) CoCoME in SOFA, Book chapter in The Common Component Modeling Example: Comparing Software Component Models, Springer, LNCS 5153, ISBN: 978-3-540-85288-9, ISSN: 0302-9743, pp. 388-417, DOI: 10.1007/978-3-540-85289-6_15
2. Combaz, Jacques et al. (2015) Correctness of service components and service component ensembles, Software Engineering for Collective Autonomic Systems: The ASCENS Approach, Springer International Publishing, LNCS 8998, ISBN: 978-3-319-16309-3, pp. 107-159, DOI: 10.1007/978-3-319-16310-9_3, Springer
3. Dhaminda B. Abeywickrama et al. (2015) Tools for Ensemble Design and Runtime, Software Engineering for Collective Autonomic Systems: Results from the ASCENS Project. LNCS 8998, ISBN: 978-3-319-16309-3, pp. 291-322, DOI: 0.1007/978-3-319-16310-9_13, Springer

C. Original scientific publications

(C1) In foreign scientific journals

4. Kofroň J., Plášil F., Šerý O. (2009) Modes in component behavior specification via EBP and their application in product lines, In Information and Software Technology 51/1, pp. 31-41, ISSN: 0950-5849, DOI: 10.1016/j.infsof.2008.09.011, Elsevier, IF: 1.821 (2009)
5. Poch T., Šerý O., Plášil F., Kofroň J. (2013) Threaded Behavior Protocols, Formal Aspects of Computing, Volume 25, Issue 4 , pp 543-572, ISSN 0934-5043, DOI: 10.1007/s00165-011-0194-3, Springer-Verlag, IF: 0.609 (2013)
6. Jančík P., Kofroň J. (2017) On Partial State Matching, Formal Aspects Of Computing, ISSN 1433-299X, DOI 10.1007/s00165-016-0413-z, pp 1–27, IF: 0.521, (2016/2017)

(C2) In Czech scientific journals

(C3) In foreign peer reviewed proceedings

(C3B) Equivalent to publications with IF

7. Hauzar D., Kofroň J. (2015) Framework for Static Analysis of PHP Applications, In Proceedings of the 29th European Conference on Object-Oriented Programming (ECOOP 2015), DOI: 10.4230/LIPIcs.ECOOP.2015.689, CORE-2018: A
8. Blicha M., Hyvärinen A.E.J., Kofroň J., Sharygina N. (2019): Decomposing Farkas Interpolants, Accepted for publication in proceedings of TACAS'19, CORE-2018: A
9. Bureš T., Hnětynka P., Kofroň J., Al Ali R., Škoda D. (2016) Statistical Approach to Architecture Modes in Smart Cyber Physical Systems, Proceedings of IEEE/IFIP Working Conference on Software Architecture (WICSA 2016), Venice, Italy, IEEE, pp. 168-177, DOI: 10.1109/WICSA.2016.33, CORE-2017: A

10. Jančík P., Alt L., Fedyukovich G., Hyvärinen A. E. J., Kofroň J., Sharygina N. (2016) PVAIR: Partial Variable Assignment InterpolatoR, In proceedings of Fundamental Approaches to Software Engineering (FASE'16), Eindhoven, Netherlands, DOI: 10.1007/978-3-662-49665-7_25, CORE-2017: B (ACC: 27%)
11. Jančík P., Kofroň J., Rollini S. F., Sharygina N. (2014) On Interpolants and Variable Assignments, In proc. of Formal Methods in Computer-Aided Design (FMCAD 2014), Lausanne, Switzerland, DOI: 10.1109/FMCAD.2014.6987604, (ACC: 40%)

(C3C) Full-length publications in C3

12. Kofroň J. (2007) Checking Software Component Behavior Using Behavior Protocols and Spin, In proceedings of ACM Symposium on Applied Computing (SAC 2007), Seoul, Korea, ISBN 1-59593-480-4, pp. 1513-1517, DOI: 10.1145/1244002.1244326, CORE-2017: B
13. Hauzar D., Kofroň J. (2014) WeVerca: Web Applications Verification for PHP (Tool Paper), In proceedings of the 12th International Conference on Software Engineering and Formal Methods (SEFM'14), Grenoble, France, LNCS, DOI: 10.1007/978-3-319-10431-7_24, CORE-2017: B (ACC: 27%)
14. Jančík P., Kofroň J. (2016) Dead Variable Analysis for Multi-Threaded Heap Manipulating Programs, In proceedings of 31st ACM Symposium on Applied Computing (SAC 2016), Pisa, Italy, ACM, DOI: 10.1145/2851613.2851826, CORE-2017: B (ACC: 23%)
15. Mach M., Plášil F., Kofroň J. (2005) Behavior Protocols Verification: Fighting State Explosion, International Journal of Computer and Information Science, Vol.6, Number 1, ACIS, ISSN 1525-9293, pp. 22-30
16. Ježek P., Kofroň J., Plášil F. (2005) Model Checking of Component Behavior Specification: A Real Life Experience, In Proceedings of the International Workshop on Formal Aspects of Component Software (FACS 2005), Electronic Notes in Theoretical Computer Science, Vol. 160, pp. 197-210, Elsevier B.V., ISSN: 1571-0661, DOI: 10.1016/j.entcs.2006.05.023
17. Parížek P., Plášil F., Kofroň J. (2006) Model Checking of Software Components: Combining Java PathFinder and Behavior Protocol Model Checker, In Proceedings of 30th IEEE/NASA Software Engineering Workshop (SEW-30), IEEE Computer Society, ISBN 0-7695-2624-1, ISSN 1550-6215, pp. 133-141, DOI: 10.1109/SEW.2006.23
18. Kofroň J., Parížek P., Šerý O. (2009) On Teaching Formal Methods: Behavior Models and Code Analysis, In Proceedings of the 2nd International FME Conference on Teaching Formal Methods (TFM 2009), LNCS 5846, ISBN 978-3-642-04911-8, DOI: 10.1007/978-3-642-04912-5_10, Eindhoven, Netherlands
19. Kofroň J., Poch T., Šerý O. (2009) TBP: Code-Oriented Component Behavior Specification, In Proceedings of IEEE Software Engineering Workshop (SEW-32), IEEE, ISBN 978-0-7695-3617-0, pp. 75-83, DOI: 10.1109/SEW.2008.14, Greece
20. Kofroň J., Poch T., Šerý O. (2009) Making Components Fit: SPINing, In Proceedings of IEEE Software Engineering Workshop (SEW-32), IEEE, ISBN 978-0-7695-3617-0, pp. 65-74, DOI: 10.1109/SEW.2008.10, Greece
21. Becker S., Hauck M., Trifu M., Krogmann K., Kofroň J. (2010) Reverse Engineering Component Models for Quality Predictions, in Proceedings of the 14th European Conference on Software Maintenance and Reengineering, European Projects Track, IEEE, ISBN: 978-0-7695-4321-5, DOI: 10.1109/CSMR.2010.34
22. Jančík P., Parížek P., Kofroň J. (2012) BeJC: Checking Compliance between Java Implementation and Behavior Specification, In Proceedings of Workshop on Component-Oriented Programming (WCOP 2012), DOI: 10.1145/2304676.2304683, Bertinoro, Italy
23. Hauzar D., Kofroň J. (2012) On Security Analysis of PHP Web Applications, In Proceedings of The 7th IEEE International Workshop on Security, Trust, and Privacy for Software Applications (STPSA 2012), DOI: 10.1109/COMPSACW.2012.106, Izmir, Turkey, IEEE
24. Kučera T., Hnětynka P., Kofroň J. (2012) Automated Deployment of Hierarchical Components. In: Lee R. (eds) Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2012). Studies in Computational Intelligence, vol 443., DOI: 10.1007/978-3-642-32172-6_10, Springer, Berlin, Heidelberg

25. Hauzar D., Kofroň J., Baštecký P. (2014) Data-flow Analysis of Programs with Associative Arrays, In Proceedings of the International Workshop on Engineering Safety and Security Systems (ESSS 2014), DOI: 10.4204/EPTCS.150.6, Singapore, EPTCS
26. Arcaini P., Ježek P., Kofroň J.: Modelling the Hybrid ERTMS/ETCS Level 3 Case Study in Spin, in Proceedings of ABZ'18, in Abstract State Machines, Alloy, B, TLA, VDM, and Z, Springer International Publishing, pp. 277-291, DOI: 10.1007/978-3-319-91271-4_19, 2018

(C4) In Czech peer reviewed proceedings

D. Textbooks

(E) Other scientific publications

(E2) Software

27. Hauzar D., Kofroň J. (2015) Framework for Static Analysis of PHP Applications (Artifact), Dagstuhl Artifacts Series, ISSN: 2509-8195, Schloss Dagstuhl–Leibniz-Zentrum für Informatik, Germany

F. Patents

H. Theses

28. Kofroň J. (2007) Behavior Protocols Extensions, Doctoral Thesis, advisor: Plášil F., Charles University in Prague, Czech Republic

I. Others