JAN KOFROŇ

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Homepage: http://d3s.mff.cuni.cz/~kofron

Teaching activities

Faculty of Mathematics and Physics, Charles University

Teaching courses/labs since 2003/2004, focus on programming languages, model checking and verification in general, and software design. Key courses include:

- Programming in C/C++, 2003 – 2008, lab

- System Behavior Models And Verification, 2003 – 2019, both lectures and labs

- C# Language and .NET Framework, 2009 – 2010, labs

- Program Semantics, 2017 – 2019, lectures

- Java, 2009 – 2019, labs

Student supervision

- 3 doctoral students (1 defended, 2 in progress)

- 17 master students (14 defended, 2 in progress, 1 unfinished)

- 31 bachelor students (23 defended, 4 in progress, 4 unfinished)

Academic Experience outside Czech Republic

- Forschungszentrum Informatik Karlsruhe, Germany, July 2008 – January 2009

Scholarly activities

Publications

- 3 publications in journals with impact factor

- 3 CORE-A rated publications

- 20 articles in proceedings of international conferences and workshops

- 1 evaluated software artifact

- Google Scholar profile: https://scholar.google.cz/citations?hl=en&user=Q551wNIAAAAJ

Citations

- 69 citations according to Scopus (excluding self-citations), h-index: 6

- 360 citations according to Google Scholar (including self-citations)

Software
The following software tools and frameworks maintained, co-authored, or supervised by the applicant have been used both in research (basic, applied, and industrial) and teaching. Key frameworks include:

- WeVerca – a web verification framework for security analysis of PHP code, using static analysis

- GMC – explicit code model checker for C

- Behavior protocol checker – a tool for verification of consistency of behavior specification of software components

Projects

- Verification and Bug Hunting for Advanced Software, Czech Science Foundation, co-PI, project 17-12465S, 2017 – 2019

- Runtime Verification beyond Monitoring (ARVI), COST Action IC1402, MC member, 2014 – 2018

- Automatic Formal Analysis and Verification of Programs with Complex Unbounded Data and Control Structures, Czech Science Foundation, co-PI, project 14-11384S, 2014 – 2016

- Methods for explicit state model checking, Grant Agency of Charles University 253297, supervisor of Pavel Jančík, 2012 – 2015

- Autonomic service-component ensembles – ASCENS, FP7 IP EU project 257414, researcher, 2010 – 2015

- Quality Impact Prediction for Evolving Service-oriented Software – Q-ImPrESS, FP7 STREP EU project 215013, researcher, 2008 – 2010

Academic service

- European Joint Conferences on Theory and Practice of Software – ETAPS 2019, Prague, general co-chair, 2019

- 1st Workshop on Formal Approaches for Advanced Computing Systems – FAACS 2017, PC member, 2017

- International Workshop on Engineering IoT Systems: Architectures, Services, Applications, and Platforms – IoT-ASAP 2017, PC member, 2017

- 14th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2017, PC co-chair, 2017

- 11th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science –MEMICS 2016, PC co-chair, 2016

- 13th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2016, PC co-chair, 2016

- Doctoral Workshop on Mathematical and Engineering Methods in Computer Science – MEMICS 2015, PC co-chair, 2015

- 20th International Doctoral Symposium on Components and Architecture – WCOP 2015, PC member, 2015

- 12th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2015, PC co-chair, 2015

- Doctoral Workshop on Mathematical and Engineering Methods in Computer Science –MEMICS14, PC co-chair, 2014

- 19th International Doctoral Symposium on Components and Architecture – WCOP 2014, PC member, 2014

- 11th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2014, PC co-chair, 2014

- 18th International Doctoral Symposium on Components and Architecture – WCOP 2013, PC member, 2013

- 10th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2013, PC co-chair, 2013

- Eighth International ACM Sigsoft Conference on the Quality of Software Architectures – QoSA 2012, PC member, 2012, CORE-2008: A

- 9th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2012, PC co-chair, 2012

- Seventh International Conference on the Quality of Software Architectures – QoSA 2011, PC member, 2011, CORE-2008: A

- 8th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2011, PC member, 2011

- Sixth International Conference on the Quality of Software Architectures – QoSA 2010, PC

- co-chair, 2010, CORE-2008: A

- 7th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 2010, PC member, 2010

- 6th International Workshop on Formal Engineering approaches to Software Components and Architectures – FESCA 09, PC member, 2009