

Curriculum Vitae

Lubomír Bulej

January 2017

Personal data

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Employment Department of Distributed and Dependable Systems
Faculty of Mathematics and Physics, Charles University
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Research interests

Dynamic program analysis (accurate profiling, analysis composition, application instrumentation).
Software performance (performance regression testing, performance awareness in software development, performance modeling).

Education

2002–2007 Doctoral studies at Faculty of Mathematics and Physics, Charles University, Czech Republic. Dissertation thesis: “Connector-based Performance Data Collection for Component Applications”.

1994–2002 Master studies at Faculty of Electrical Engineering, Czech Technical University, Czech Republic. Master thesis “Generator of Connectors for SOFA/DCUP”.

Current position

since 2010 Assistant Professor, Department of Distributed and Dependable Systems, Faculty of Mathematics and Physics, Charles University

Foreign experience

09/2016–12/2016 Researcher, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland

07/2015–01/2016 Researcher, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland

05/2013–01/2015 Researcher, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland

06/2012–12/2012 Sciex Fellow, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland

Previous positions

2007–2010	Assistant Professor, Department of Software Engineering, Faculty of Mathematics and Physics, Charles University
2005–2007	Researcher, Department of Software Engineering, Faculty of Mathematics and Physics, Charles University
2011–2015	Researcher, Institute of Computer Science, Academy of Sciences of the Czech Republic
2007–2011	Postdoctoral Researcher, Institute of Computer Science, Academy of Sciences of the Czech Republic
2002–2007	Research Assistant, Institute of Computer Science, Academy of Sciences of the Czech Republic

Teaching activities

2008–2016	Lecturer, Best Programming Practices (NPRG043), Charles University
2015–2016	Lecturer, Computer Architecture (NSWI143), Charles University
2013	Lecturer, Performance Evaluation of Computer Systems (NSWI131), Charles University
2007–2011	Lecturer, Principles of Computers and Operating Systems (NSWI120), Charles University
2003–2007	Instructor, Operating Systems II (SWI088), Charles University
2003–2007	Instructor, Operating Systems I (SWI004), Charles University

Assisted prof. Walter Binder as a lecturer in teaching bachelor and master courses at the Faculty of Informatics, Università della svizzera italiana, Lugano, Switzerland:

2016/2017	Programming Fundamentals 3 (INFO.B250) Introduction to Programming (INFO.M327)
2015/2016	Programming Fundamentals 3 (INFO.B250) Advanced Programming and Design (INFO.M288) Introduction to Programming (INFO.M252)
2014/2015	Programming Fundamentals 3 (INFO.B168) Advanced Programming and Design (INFO.M157)
2013/2014	Programming Fundamentals 3 (INFO.B115) Advanced Programming and Design (INFO.M115) Parallel and Distributed Computing (INFO.M134)
2012/2013	Programming Fundamentals 3 (INFO.B043) Advanced Programming and Design (INFO.M035)

Student supervision

2010–2016	2 doctoral students, Faculty of Mathematics and Physics, Charles University
2003–2015	6 master students, Faculty of Mathematics and Physics, Charles University

Fellowships and awards

2012	Sciex-NMS ^{CH} fellowship, SCIEIX 11.109, <i>DYNASTY: DYNdynamic Analysis for diSTributed sYstems</i>
2015	OOPSLA Distinguished Paper Award for: <i>Accurate Profiling in Presence of Dynamic Compilation</i> CCGRID Best Paper Runner-Up Award for: <i>Analyzing the Impact of CPU Pinning and Partial CPU Loads on Performance and Energy Efficiency</i>
2014	ICPE Best Research Paper Award for: <i>On the Limits of Modeling Generational Garbage Collector Performance</i>

Project grants awarded

2010–2013 GAČR P202/10/J042, *Model-Driven Evaluation of Design Decision Impacts in Software Engineering* (co-investigator)

Project participation

2015–2016 EU IP FP7-605442, *Avionics Systems Hosted on a distributed modular electronics Large scale dEmonstrator for multiple tYpe of aircraft (ASHLEY)*

2013–2015 SNSF CRSII2_136225, *FAN: Foundations of dynamic program ANalysis*

2011–2015 EU ITN FP7-264840, *Trans-European Research Training Network on Engineering and Provisioning of Service Based Cloud Applications (RELATE)*

2010–2012 EU FET FP7-257414, *Autonomic Service-Component ENsembles (ASCENS)*

2009–2012 GAČR 201/09/H057, *Res Informatica*

2008–2010 EU STREP FP7-215013, *Quality Impact Prediction for Evolving Service-Oriented Software (Q-ImPrESS)*

2006–2008 GAČR 201/06/0770, *Formální metody prakticky použitelné pro vývoj systémů složených ze softwarových komponent*

2005–2009 GAAVČR 1ET400300504, *Realistic Application of Formal Methods in Component Systems*

2005–2008 GAČR 201/05/H014, *Collegium Informaticum*

2005–2007 ITEA 04040, *Open Source Infrastructure for Runtime Integration of Services (OSIRIS)*

2005–2006 France Telecom (FRA), contract no. 46127110, *Component Reliability Extensions to the Fractal Component Model*

2003–2005 GAČR 102/03/0672, *Research of methods and tools for verification of embedded computer systems fault tolerance*

2003–2005 GAČR 201/03/0911, *Development of Advanced Software Components and Models*

2002–2004 ITEA 02003, *Open Source Middleware for Open Systems in Europe (OSMOSE)*

2002 Borland International (USA), *CORBA Benchmarking Research Project*

2002 GAAVČR A2030902, *Software Appliances (SOFA)*

Academic service

Conference program committee member (alphabetically) ICPE 2015, 2016 (proceedings ACM), SEAFOOD 2010, SC 2013.

Member of ECOOP 2015 artifact evaluation committee.

External reviewer or sub-reviewer (alphabetically) ATPS 2016, CORCS 2008, ECOOP 2008, 2014, 2015, EUROPAR 2014, EWSA 2006, GPCE 2015, ICPE 2011, ICSOC 2013, 2014, 2015, JTRES 2014, QOSA 2009, 2011, SERA 2006, 2007, 2008, SOFSEM 2005, 2007.

Reviewer for *Computer Science Reviews* (Elsevier), *Journal of Computers and Applications* (IASTED), *Journal of Network and Computer Applications* (Elsevier), *Software and Systems Modeling* (Springer).

Conference finance chair ICPE 2013, poster and demonstration track chair ICPE 2017.