

Curriculum Vitae

Petr Tůma

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Education

2006 Habilitation thesis „Component Middleware“ defended.
1998 Dissertation thesis „Persistence in CORBA“ defended.
1994-1997 Doctoral studies at Charles University, Prague, Czech Republic.
1994 Master thesis „Design and implementation of dialup router“ defended.
1989-1994 Master studies at Czech Technical Institute, Prague, Czech Republic.

Employment

since 2010 Associate Professor and Department Chair,
 Department of Distributed and Dependable Systems, Charles University
2006-2010 Associate Professor, Department of Software Engineering, Charles University
1999-2006 Senior Assistant Professor, Department of Software Engineering, Charles University
1998-1999 Researcher, Institut de Recherche en Informatique et Systèmes Aléatoires, INRIA, France
1997-1999 Assistant Professor, Department of Software Engineering, Charles University

Professional Activities

Technical background in hardware and software design for educational embedded systems (1980s, optical sensor and motor driver circuits, debuggers and system utilities, 8080 assembly language, Basic, Forth) ; system programming (1990s, drivers, simulators, system utilities, 80x86 assembly language, Pascal, C/C++) ; research and education activities with prototype experiments (2000s, 80x86 assembly language, MIPS assembly language, C/C++, Java, PHP, Python, CORBA).

Research Topics

Performance evaluation (software performance modeling, benchmark experiments, methods and tools).
Distributed systems (component architectures, middleware infrastructure, adaptive systems).

Research projects for these topics include EU FP7 FET ASCENS “Autonomic Service-Component Ensembles”, EU FP7 STREP “Quality Impact Prediction for Evolving Service-Oriented Software”, IBM Faculty Awards “Voice Interactions Over Intelligent Network”, ITEA EUREKA “Platform for Enhanced Provisioning of Terminal Independent Applications”, Borland “CORBA Benchmarking”, IONA Technologies “CORBA Benchmarking” and others.

A complete list of research projects and research publications is available at <http://d3s.mff.cuni.cz>.

Community Activities

Editorial work related to preparation of proceedings from co-chaired conferences (Proceedings of ICPE 2013 (ACM), Proceedings of SOFSEM 2009 (Springer), Proceedings of SERA 2008 (IEEE)) and co-chaired workshops (guest editor Studia Informatica Universalis (SIU) special issue on Software Engineering 2005 (Hermann)).

Editorial board member Journal of Network and Computing Applications (JNCA) (Elsevier).

Conference steering committee member ICPE since 2012, SOFSEM 2002-2011.

Conference general co-chair ICPE 2013.

Conference program committee co-chair SERA 2008, track chair SOFSEM 2009, co-chair OOPSLA 2004 Workshop on Component and Middleware Performance, OOPSLA 2003 Workshop on Middleware Benchmarking.

Conference program committee member:

- ASMTA 2008, 2009, 2010, 2011 (proceedings Springer LNCS),
- COMPSAC CORCS 2009, 2011 (proceedings IEEE),
- EPEW 2012, 2013 (proceedings Springer LNCS),
- GPCE 2012,
- ICPE 2010, 2011, 2012 (proceedings ACM),
- ICPP 2013,
- ICSE SEESE 2008 (digital proceedings ACM),
- ICSOC 2007 doctoral symposium,
- ICSSEA 2007, 2008,
- MEMICS 2007, 2008, 2009, 2011 (proceedings Springer LNCS),
- MOSPAS 2013,
- PPPJ 2013,
- QOSA 2008, 2009, 2010, 2011, 2013 (proceedings Springer LNCS),
- QUASOSS 2009, 2010 (proceedings ACM),
- SCC 2012, 2013 (proceedings IEEE),
- SE 2007, 2008, 2009, 2010, 2011 (proceedings ACTA),
- SERA 2009, 2010, 2013 (proceedings IEEE, Springer SCI),
- SIPEW 2008 (proceedings Springer LNCS),
- SPEC 2009 (proceedings Springer LNCS),
- SOFSEM 2000, 2001, 2002, 2005, 2009 (proceedings Springer LNCS),
- TOOLS EUROPE CSPROVE 2007,
- TTSS 2007, 2008, 2009 (proceedings Elsevier ENTCS).

Other review activities

- external review committee member of PLDI 2009,
- reviewer for ECOOP USE 2002,
- reviewer for IPDPS PMEOPDS 2003,
- reviewer for SOFSEM 1999, 2003,
- project reviewer for Swiss National Science Foundation 2007, 2010,
- project reviewer for French National Research Agency 2009,
- reviewer for IEEE Transactions on Industrial Informatics 2008, 2009,
- reviewer for International Journal on Software Tools for Technology Transfer (Springer) 2007,
- reviewer for Journal of Network and Computer Applications (Elsevier) 2001, 2003, 2004, 2005, 2010,
- reviewer for Journal of Systems and Software (Elsevier) 2010,
- reviewer for Software: Practice and Experience (Wiley) 2005, 2009, 2010.

Member of OW2 Board of Directors 2007-2009.

Member of OW2 Technical Committee 2007-2012.

Member of ObjectWeb College of Architects 2005-2006.

Deputy chair Czech Science Foundation (GAČR) panel for Computer Science 2013, member Czech Science Foundation (GAČR) panel for Computer Science 2012-2013, member of Czech Science Foundation (GAČR) subcommittee for Mathematics and Computer Science 2008.

SPEC Research Group Steering Committee member since 2011.