

Dilian Gurov's CV

Professional preparation

- **PhD** in Computer Science, 1998, Dept. of Computer Science, University of Victoria, Canada.
- **Dipl. Ing.** in Computer Science and Engineering, 1989, Department of Computer Science and Engineering, Higher Institute of Mechanical and Electrical Engineering, Sofia, Bulgaria.

Appointments

- **Present appointment:** University lecturer at the School of Computer Science and Communication at KTH, since January 2006. Permanent, full-time position.
Docent level awarded in March 2007.
- March 2002 - December 2005, University lecturer at the School for Information and Communication Technology at KTH. Permanent full-time position.
- September 1997 - February 2002, Senior researcher at SICS. Permanent full-time position.
- June 1990 - December 1993, Assistant lecturer at the Department of Computer Science and Engineering, Higher Institute of Mechanical and Electrical Engineering, Sofia, Bulgaria. Permanent full-time position.

Doctoral Supervision

I have been the main supervisor for:

- **Irem Aktug**, PhD 2008 (Lic.Tech. 2006).
- **Siavash Soleimanifard**, PhD 2014 (Lic.Tech. 2012).
- **Pedro de Carvalho Gomes**, PhD 2015 (Lic.Tech. 2012).

Networks in academia and industry

I have tight, ongoing collaborations with the following researchers:

- **Marieke Huisman**, University of Twente, Holland.
- **Mattias Nyberg**, Scania AB and KTH.
- **Valentin Goranko**, Stockholm University, Sweden.

and a less tight but wide network in Europe in the field of **Formal Methods**.

Other merits of relevance

Service

- PC co-chair and proceedings co-editor for FoVeOOS 2011.
- Workshops chair for CSL 2017.
- PC member for FASE 2018, FASE 2017, iFM 2016, FMSPLE 2015, UaESMC 2014, WING 2014, FMSPLE 2013, ACM SAC 2010 SVT Track, FoVeOOS 2010, PoFI 2010, and SAVCBS 2009.
- Co-organizer of the IsoLA 2016 Track 2 on *Static and Runtime Verification*, 10-14 October 2016, Corfu, Greece.
- Co-organizer of the Lorentz Center workshop on *Verification of Concurrent and Distributed Software*, 14-18 September 2015, Leiden, The Netherlands.

Invited talks

- *Modular Software Verification*, invited talk at the 1st International Conference on Recent Trends and Applications in Computer Science and Information Technology 2014, Tirana, Albania.
- *Modular Verification of Temporal Safety Properties of Procedural Programs*, an invited tutorial given at the 9th International Conference on Software Engineering and Formal Methods 2011, Montevideo, Uruguay.

Prizes

- The **KTH CSC Tie Prize** 2011 for meritorious deed.
- **EASST Award** for Best Software Science Paper, given at ETAPS 2004 (see Publications).
- The **Charles S. Humphrey Graduate Student Award** for 1996/97, given at the University of Victoria to Highly Qualified Individuals in the Exact Sciences.

List of publications

<http://www.csc.kth.se/~dilian/publications.html>

Selected publications

- *Formal Architecture Modeling of Sequential Non-recursive C Programs*, Jonas Westman, Mattias Nyberg, Joakim Gustavsson, and Dilian Gurov. **Science of Computer Programming**, vol. 146, pp. 2-27, 2017.
- *Algorithmic Verification of Procedural Programs in the Presence of Code Variability*, Siavash Soleimanifard, and Dilian Gurov. **Science of Computer Programming**, vol. 127, pp. 76-102, 2016.
- *Provably Correct Control Flow Graphs from Java Bytecode Programs with Exceptions*, Afshin Amighi, Pedro de Carvalho Gomes, Dilian Gurov, and Marieke Huisman. **Software Tools for Technology Transfer**, vol. 18, no. 6, pp. 653-684, 2016.

- *Procedure-Modular Specification and Verification of Temporal Safety Properties*, Siavash Soleimanifard, Dilian Gurov, and Marieke Huisman. **Software and Systems Modeling**, vol. 14, num. 1, pp. 83-100, 2015.
- *Reducing Behavioural to Structural Properties of Programs with Procedures*, Dilian Gurov, and Marieke Huisman. **Theoretical Computer Science**, vol. 480, pp. 69-103, 2013.
- *Provably Correct Runtime Monitoring*, Irem Aktug, Mads Dam, and Dilian Gurov. **Journal of Logic and Algebraic Programming**, vol. 78, pp. 304-339, 2009.
- *Compositional Verification of Sequential Programs with Procedures*, Dilian Gurov, Marieke Huisman, and Christoph Sprenger. **Journal of Information and Computation**, vol. 206, no. 7, pp. 840-868, 2008.
- *Checking Absence of Illicit Applet Interactions: A Case Study*, Marieke Huisman, Dilian Gurov, Christoph Sprenger, and Gennady Chugunov. In Proceedings of: FASE'04, Lecture Notes in Computer Science, vol. 2984, pp. 84-98. Winner of the **EASST Award for Best Software Science Paper**, 2004.
- *A Verification Tool for Erlang*, Lars-Åke Fredlund, Dilian Gurov, Thomas Noll, Mads Dam, Thomas Arts, and Gennady Chugunov. **Software Tools for Technology Transfer**, vol. 4, pp. 405-420, 2003.
- *mu-Calculus with Explicit Points and Approximations*, Mads Dam, and Dilian Gurov. **Journal of Logic and Computation**, vol. 12, no. 2, pp. 43-57, 2002.
- *A Note on Negative Tagging for Least Fixed-Point Formulae*, Dilian Gurov, and Bruce Kapron. **RAIRO Theoretical Informatics and Applications**, vol. 33, pp. 383-392, 1999.
- *Toward Parametric Verification of Open Distributed Systems*, Mads Dam, Lars-Åke Fredlund, and Dilian Gurov. In book: *Compositionality: The Significant Difference*, Lecture Notes in Computer Science, vol. 1536, pp. 150-185, 1998.

Total number of (Google Scholar):

Original articles in refereed scientific journals:	10
Original contributions to refereed scientific conferences:	37
Review articles, book chapters, etc:	2
Other scientific contributions:	9
Citations:	701
H-index:	16