

CURRICULUM VITAE

Leonid Yourievich Mokrushin

Date of birth: 26th February 1978

Citizenship: Russian

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EDUCATION

St.Petersburg State Technical University

M.Sc. 2001 Software Engineering. Thesis "Coordination System for Cooperative Business Processes".

B.Sc. 1999 Software Engineering. Thesis "Distributed Video Conferencing System Elaboration using Distributed Object Modeling Environment (DOME). Quality Monitoring and Control."

PROFESSIONAL EXPERIENCE

05.2002 - present

Ph.D. studies at the IT Department of Uppsala University, Uppsala, Sweden in the group of Prof. Wang Yi. Research topics: schedulability analysis of real-time systems, implementability of controllers for specifications modeled by timed automata. Creating a generic environment (TIMES) for design, analysis, symbolic simulation, and reactive animation of real-time embedded systems.

05.2001 - 05.2002

Temporary employment at the research group of Prof. Wang Yi in Uppsala University, Sweden sponsored by a scholarship from the Swedish Institute. Studying basic real-time systems and the problem of schedulability analysis.

09.2000 - 05.2001

Temporary employment at Hewlett-Packard Laboratories, Bristol, Trusted E-Services Lab. Exploring the creation of the next generation of electronic trading based upon the e-service paradigm and the role of negotiation and contractual relationships to support the dynamic web of business trust in open ecosystems (basis for my M.Sc. thesis).

03.2000 - 09.2000

Same laboratory. Development and implementation of security system for Java application servers. The work was presented at the ApacheCon conference, October 2000, London, UK.

08.1999 - 03.2000

Same laboratory. Modeling algorithms based on error-correcting codes in COVERS modeling tool. Implementation of the IP phone with quality control utilizing error-correcting codes.

01.1999 - 06.1999

Same laboratory. Development and implementation of Distributed Video Conferencing System within Distributed Object Modeling Environment (DOME) project.

09.1997 - 08.1998

St.Petersburg State Technical University (SPbSTU), Technical Cybernetics Department, laboratory of Prof. Yuri G. Karpov. Participation in OPTIMUS 01 IR 605 project "Optimization, Modeling and Implementation of Distributed Multimedia Systems". The project was supported by a research grant of the "Bundesministeriums für Bildung, Wissenschaft, Forschung und Technologie", Germany. The research results obtained are oriented on the further development of CINEMA (Configurable Integrated Multimedia Architecture) that was designed at the Distributed Systems Department of Stuttgart University.

PUBLICATIONS

1. Pavel Krčál, Leonid Mokrushin, P.S. Thiagarajan, and Wang Yi. Timed vs. Time-Triggered Automata. In proceedings of 15th International Conference on Concurrency Theory (CONCUR'04), London, UK, August 31 - September 3, 2004, LNCS, vol. 3170, pages 340-354, Springer-Verlag, 2004.
2. Tobias Amnell, Elena Fersman, Leonid Mokrushin, Paul Pettersson, and Wang Yi. Times: a Tool for Schedulability Analysis and Code Generation of Real-Time Systems. In proceedings of 1st International Workshop, FORMATS'03, Marseille, France, September 6-7, 2003, LNCS, vol. 2791, pages 60-72, Springer-Verlag, 2004.
3. Elena Fersman, Leonid Mokrushin, Paul Pettersson, and Wang Yi. Schedulability Analysis using Two Clocks. In Proceedings of 9th International Conference TACAS'03, part of the Joint European Conferences on Theory and Practice of Software, ETAPS'03, Warsaw, Poland, April 7-11, 2003, LNCS, vol. 2619, pages 224-239, Springer-Verlag, 2003. The full version is to appear in journal: Theoretical Computer Science, 2004.
4. Tobias Amnell, Elena Fersman, Leonid Mokrushin, Paul Pettersson, and Wang Yi. Times - A Tool for Modelling and Implementation of Embedded Systems. In Proceedings of 8th International Conference TACAS'02, part of the Joint European Conferences on Theory and Practice of Software, ETAPS'02, Grenoble, France, April 8-12, 2002, LNCS, vol. 2280, pages 460-464, Springer-Verlag, 2002.
5. Giacomo Piccinelli, Giuliano Di Vitantonio, Leonid Mokrushin. Dynamic service aggregation in electronic marketplaces. Computer Networks, Volume 37, Issue 2, October 2001, Pages 95-109. HP Labs Technical Report.
6. Giacomo Piccinelli, Leonid Mokrushin. Dynamic e-service composition in DySCo. Proceedings of International Workshop on Distributed Dynamic Multiservice Architecture, part 21, IEEE International Conference on Distributed Computing Systems (ISDCS-21), Phoenix, USA, 2001.

7. Kirill Bolshakov, Leonid Mokrushin. Securing Java Application Servers. Proceeding of ApacheCon Europe 2000, London, UK, October 23-25, 2000.
8. Eugeny Krouk, Leonid Mokrushin - "Voice Transfer Efficiency Increment in IP networks based on Error-Correcting codes". Proceedings of the 2nd International Scientific Practical Conference "Informative Technologies in Modeling and Management", St.Petersburg, June 2000. (in Russian)
9. Leonid Mokrushin - "Application of Error-Correcting Codes in Voice over IP". Proceeding of the 28th Science Week in St.Petersburg State Technical University, St.Petersburg, November 1999. (in Russian)
10. Leonid Mokrushin - "Adaptive Synchronization Protocol (ASP) employment for Quality of Service Management in Video Conferencing System". Proceeding of the 27th Science Week in St.Petersburg State Technical University, St.Petersburg, November 1998. (in Russian)

HONORS AND AWARDS

- ETAPS Best Tool Demo Award "TIMES - A Tool for Modeling and Implementation of Embedded Systems" offered by the ETAPS organizers and Verimag, Grenoble, France, April 2002.

SKILLS AND OTHER EXPERIENCE

- System design (Research, System Architecturing, Software Implementation)
- IT technologies and programming languages
 - In-depth programming experience in Java (J2SE, J2ME midlets, J2EE and HTTP servlets, XML/XSLT)
 - Excellent knowledge in Eclipse Plugin Development (Platform, JDT, PDE, EMF, GEF)
 - Programming in C/C++ (MSVC, GCC)
 - Experience in development of distributed multimedia systems (VoIP, telecommunication systems, protocol design, QoS)
 - Web technologies: HTTP, HTML/CSS, PHP, application servers, Apache Cocoon servlet framework and the Apache Web server.
 - Experienced also in database management using MySQL and Oracle
 - Revision Control Systems (Subversion, CVS)
 - E-Commerce Workflow Engine (HP Changengine)
- Modeling and simulation tools:
 - Formal modeling and verification (UPPAAL, TIMES, SPIN)
 - Simulation, Optimization and Animation (AnyLogic)
- Web site development and support
- Printed matter design
- Spoken languages: English, Russian; International experience