

Curriculum Vitae

Tatiana Kozlova Madsen

WORKING ADDRESS

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PERSONAL DETAILS

Gender: Female
Date of birth: 23rd of April 1975
Place of birth: Moscow, Russia
Citizenship: Russian
Marital status: Married since June, 2002
Children: boy born Feb. 2006

DEGREES AND EDUCATION

- Ph.D. In Physics and Mathematics, Moscow Lomonosov State University, 2000.
- M.Sc. In Mechanics and Applied Mathematics (with honors), Moscow Lomonosov State University, 1997.
- M.Sc. In Cross-Cultural Communications (with honors), Moscow Lomonosov State University, 1998.

Additional courses taken:

- Project leader course Prince 2 Foundation, Lyngby, Denmark, May 2009.
- Pedagogical course for assistant professors (Adjunktpædagogikum), Aalborg University, 2003-2005
- Introduction into Performance and Reliability Analysis of IP-based mobile communication networks, PhD course, Aalborg University, 2004
- Information Theory, PhD course, Aalborg University, 2003
- UMTS and IP based Mobile Networks, PhD course, Aalborg University, 2003

POSITIONS HELD

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| September 2007 to present | Associate professor Networking and Security Section Institute of Electronic Systems Aalborg University, Denmark |
| September 2006 to August 2007 | Assistant professor Institute of Electronic Systems Aalborg University, Denmark |
| October 2005 to August 2006 | maternity leave |
| August 2002 to September 2005 | Assistant professor Institute of Electronic Systems Aalborg University, Denmark |
| March 2001 to August 2002 | Post-doc Institute of Electronic Systems Aalborg University, Denmark |
| October 2000 to January 2001 March 2000 to May 2000 | Visiting Doctoral student School for Postgraduate Interdisciplinary Research on Interculturalism and Transnationality (SPIRIT) Aalborg University, Denmark |
| September 1997 to October 2000 | Ph.D. student Dept. of Mathematics and Mechanics Moscow Lomonosov State University Russia |

RESEARCH INTERESTS

- Quality of Service and performance optimization of converging networks
- Architectures and protocols for safety-critical applications
- Vehicular communication
- Modelling of communication protocols
- Cooperative principles for wireless communication
- Network coding
- Mobility support in heterogeneous IP-based networks and ad hoc routing

EXPERIENCE FROM R&D PROJECTS

- Intelligent Transport System (ITS) platform, 2010-2013, Vækst-fonden Nordjylland project

- Wireless Hybrid Enhanced Mobile Radio Estimators (WHERE), 2008-2010, EU-funded project.
- Safe Driver Machine Interface (DMI) for ERTMS automatic train control (SAFEDMI), 2006-2008. EU-funded project. Role: WP leader.
- Cross-Layer Design for Multi-Media Applications on Mobile Phones, 2005-2008. Danish government funded project.
- Enhanced wireless interfaces (EDWIN), 2005. CTIF-funded project.
- Joint Advanced Development Enabling 4G (JADE), 2004-2005. Collaboration between CTIF and Samsung, Korea.
- Center for Network and Service Convergence (CNTK), 2005-2006. Danish government funded project.

INVITED TALKS

- Vehicular Communications. PhD course at Aalborg University. December 2009.
- Car-to-car Communication. At Media-on-the-Move Conference 09, Aalborg, Hotel Hvide Hus, May 2009.
- Network Coding in Routing and Content Distribution. At 4th Interdisciplinary Seminar on Applied Mathematics. Aalborg University. April 2009.
- Cross Layer Protocol Design for Multimedia Services on Mobile Phones. At Mobile Developer days, Aalborg. August 2007.

ADMINISTRATIVE EXPERIENCE

- Member of Teaching Committee of Institute of Electronic Systems, Aalborg University
- Coordinator of "Communication Systems" line, Aalborg University

DISSIMINATION QUALIFICATIONS

- Associate Editor of International Journal "Wireless Personal Communication", Springer, 2002-2006
- Referee for a number of scientific journals and conferences
- TPC member of The 7th and 8th International Conferences on Next Generation Teletraffic and Wired/Wireless Advanced Networking (NEW2AN 2007, NEW2AN 2008, NEW2AN 2009, NEW2AN 2010), TPC member of The International Conference on Telecommunications (ITC 2008), TPC member of International Conference on Ultra Modern Telecommunications (ICUMT 2009).

LANGUAGES

- English, Danish - fluent, Russian - native.

REFERENCES

- Prof. Ole Brun Madsen, Aalborg University, Denmark (obm@es.aau.dk)
- Prof. Hans-Peter Schwefel, Forschungszentrum Telekommunikation Wien - FTW, Vienna, Austria (schwefel@ftw.at)
- Assoc. Prof. Andrea Bondavalli, Università degli Studi di Firenze, Italy (andrea.bondavalli@unifi.it)