

FROM THE DIRECTOR



Dear members of the TUCS Community!

We are hereby starting a new series of newsletters sent out by Turku Centre for Computer Science. It contains information about doctoral defences by the students of TUCS, their travel reports from conferences, information on the events happening in the TUCS community, as well as we mention researchers of TUCS and their achievements.

We encourage all the members of our community to send us information on events happening in life of Research Programmes, Research Units and member Departments.

On behalf of the TUCS team,
Ion Petre

TUCS@ABO.FI

HAPPENING NOW

Short Courses funding application round, deadline 6th November 2015

Funding application should contain the following information:

- course description / contents
- components
- amount of credits
- times and lecture halls
- name of the contact person for the course
- name of the lecturer (if not the same as the contact person)
- budget for the course (accommodation, fees etc.)

The applications should be submitted to TUCS by e-mail (tucs@abo.fi) by the deadline 6.11.2015. Priority will be given to courses that are not part of the normal curriculum.

Applicants will be informed about the decisions on Friday, 27.11.2015.

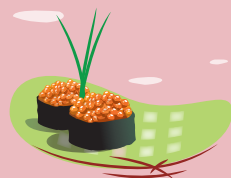
New location of TUCS Office

TUCS Office will move during November to the **Agora** building at the University Hill. The office of TUCS will be located on the 3rd floor in the premises of Åbo Akademi.



TUCS Christmas Dinner, 3rd December 2015

Traditional Christmas Dinner will be organized this year on Thursday 3.12. Invitations with requests to register for the event will be sent later this week.



NEW STRATEGY OF TUCS

TUCS Board meeting 27.10.2015

The Board of TUCS had discussed the new strategy of TUCS; this strategy will next be discussed with the rector of University of Turku and the rector of Åbo Akademi University and then launched for public discussions in the next days.

According to the new strategy, TUCS is will continue its activities, with a strong focus on research across the whole field of computing and mathematics. Several new initiatives are also included in the strategy.

GADDPRISET TO JOHAN LILIUS

Gaddpriset to Professor Johan Lilius (Åbo Akademi University)

We are glad to announce that Johan Lilius (leader of the TUCS Embedded Systems Laboratory and former director of TUCS) was awarded the "Gaddpriset 2015" at the Åbo Akademi Research Day 23.10.2015 by Chancellor Prof. Ulrika Wolf-Knuts.

The Gaddpriset, named after the first professor of chemistry at Åbo Akademi Pehr Adrian Gadd, is awarded within the Faculty of Science and Engineering.



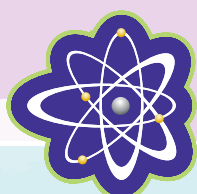
Prof. Nils Erik Villstrand (left) and Prof. Johan Lilius (right)

SEMINARS

TBMC-TUCS joint seminar on October 5

Turku Brain and Mind Centre (TBMC) and TUCS organized a joint seminar in the beginning of October.

TUCS aims to establish a collaboration with TBMC opening the door for researchers of TUCS in all aspect of computing to a new exciting application domain.



FResCo Seminar on October 30

Academy of Finland project **FResCo (High-quality measurement infrastructure for Future Resilient Control Systems)**, funded in the period 2013-2015, organized a public seminar to disseminate the results to the general public. Several invited lectures by Finnish and international researchers working on related problems were held during the seminar.

FROM A STUDENT TO A DOCTOR

Fredrik Abbors (Åbo Akademi University)

On Friday, September 4th, M.Sc. Fredrik Abbors defended his doctoral thesis entitled "*Model-Based Testing of Software Systems: Functionality and Performance*".

Prof. **Jüri Vain** from Tallin University of Technology (Estonia) acted as opponent at the public disputation.

Adjunct Professor **Dragos Truscan** acted as custos.

The thesis can be downloaded via the link:
<http://urn.fi/URN:ISBN:978-952-12-3247-3>

Mikhail Barash (University of Turku)

On Friday, September 25th, M.Sc. Mikhail Barash defended his doctoral thesis entitled "*Defining Contexts in Context-Free Grammars*".

Prof. **Frank Drewes** from Umeå University (Sweden) acted as opponent at the public disputation.

Docent **Alexander Okhotin** acted as custos.

The thesis can be downloaded via the link:
<http://urn.fi/URN:ISBN:978-952-12-3261-9>



Inna Pereverzeva (Åbo Akademi University)

On Friday, October 2nd, M.Sc. Inna Pereverzeva defended her doctoral thesis entitled "*Formal Development of Resilient Distributed Systems*".

Prof. **Giovanna Di Marzo Serugendo** from University of Geneva (Switzerland) acted as opponent at the public disputation.

Docent **Elena Troubitsyna** acted as custos.

The thesis can be downloaded via the link:
<http://urn.fi/URN:ISBN:978-952-12-3253-4>

Sepinoud Azimi (Åbo Akademi University)

On Friday, November 6th, M.Sc. Sepinoud Azimi presents her doctoral thesis "*Computational Models for and from Biology: Simple Gene Assembly and Reaction Systems*".

Prof. **Natasa Jonoska** from University of South Florida (USA) will act as opponent at the public disputation and Prof. **Ion Petre** will act as custos at the public defence.

The thesis can be downloaded via the link:
<http://urn.fi/URN:ISBN:978-952-12-3289-3>

IT'S ALWAYS GOOD TO TRAVEL

Eyal Eshet (Åbo Akademi University)
 at *17th International Conference on Human-Computer Interaction*
 Los Angeles, USA, 2.-7.8.2015

Eyal Eshet presented the paper "Approaching users and context of use in the design and development of mobile systems", which he coauthored with Harry Bouwman. The conference was attended by 2000 participants.

In Los Angeles, the question is never what to do, but where to begin. The central location of the hotel in downtown LA is perfect, within walking distance to the major attractions and the metro station that takes to other attractions in LA region, such as Hollywood and the city of Long Beach. - Eyal Eshet



AND, OF COURSE, TO PUBLISH

I. Törmä

A Uniquely Ergodic cellular Automaton.
Journal of Computer and System Sciences 81(2), 415–442, 2015.

**J. Boutellier, J. Ersfolk, J. Lilius,
 M. Mattavelli, G. Roquier, O. Silven**
 Actor Merging for Dataflow Process Networks.
*IEEE Transactions on
 Signal Processing 63(10), 2496–2508, 2015.*

**M. Tuominen, M. Yasir, J. Lång, J. Dahl,
 M. Kuzmin, J. Mäkelä, M. Punkkinen,
 P. Laukkanen, K. Kokko, K. Schulte,
 R. Punkkinen, V.-M. Korpijärvi, V. Polojärvid,
 M. Guinad**

Oxidation of the GaAs Semiconductor at the
 $Al_2O_3/GaAs$ Junction.
*Physical Chemistry Chemical Physics 17,
 7060–7066, 2015.*

JUFO-3

H. T. Toivonen, L. Hietarinta
 Fourier State-Space Analysis of Linear
 Discrete-Time Periodic Systems.
Automatica 53, 136–140, 2015.

TRAVEL GRANTS, ROUND 3

Abayomi Baiyere (ICIS 2015, Fort Worth, Texas, USA)
Tewodros Deneke (IEEE Workshop on Signal Processing Systems, China; ICEE Symposium on Multimedia, USA)
Diana-Elena Gratie (International Workshop on Static Analysis and Systems Biology, France)
Simon Holmback (research visit to Fern Universität Hagen, Germany)
Erkki Kaila (ACE 2015, Sydney, Australia)
Marko Niemimaa (research visit to Université Paris Dauphine, France)
Jarkko Peltomäki (WORDS 2015, Kiel, Germany)
Samuel Rönnqvist (IEEE Symposium on Intelligent Data Systems, Capetown, South Africa; International Symposium on Intelligent Data Analysis, France; Workshop on New Challenges in Neural Computation, Germany)