



TUCS

March 2016

NEWSLETTER

Local news

Research evaluation at University of Turku

Internal research evaluations conducted recently at University of Turku have placed units of Turku Centre for Computer Science at the top rank. More details will appear soon.

EasyTrans, a spin-off of TUCS Embedded Systems Laboratory, is chosen as one of the most promising Finnish startup teams

The concept involves proprietary machine learning algorithms allowing efficient video transcoding, and it was developed at Åbo Akademi University at the Laboratory of Embedded Systems. Video transcoding is needed to provide compatible video formats to end users and the market is constantly growing due to an increase of online video consumption and continuous technological developments of video formats.

Farewell lecture of Professor Barbro Back

Professor Barbro Back gave farewell lecture on 29.2.2016 to mark her retirement from Åbo Akademi University. Barbro Back has been a key member of the TUCS community and she served as a member of TUCS Board for many years.

We wish Professor Back many joyful and productive years to come!

TUCS researchers beat the world record

Doctoral student Fredrik Robertsén from TUCS High Performance Computing Laboratory participated in a research group that established a new world record in fast fluid dynamics simulation on the GPU. More information is available at <http://bit.ly/1QBdH3K>

TUCS launches an exciting collaboration program with local industry

More information will be published soon.

Turing Award 2015 to Diffie & Hellman

ACM has named Whitfield Diffie and Martin E. Hellman co-recipients of the 2015 ACM A.M. Turing Award for fundamental contributions to modern cryptography.

Diffie and Hellman's groundbreaking 1976 paper, "New Directions in Cryptography," introduced the ideas of public-key cryptography and digital signatures, which are the foundation for most regularly-used security protocols on the internet today.

The Diffie-Hellman Protocol protects daily internet communications and trillions of dollars in financial institutions.

Distinguished Lecture by Marta Kwiatkowska

Friday 25.11.2016

Marta Kwiatkowska is Professor of Computing Systems and Fellow of Trinity College, University of Oxford. Her research is concerned with modelling and analysis methods for complex systems, such as those arising in computer networks, electronic devices and biological organisms.

Computability in Europe (CiE) 2017

12.-16.6.2017

Computability in Europe is an annual forum for mathematicians, logicians, computer scientists, philosophers, physicists and others interested in new developments in computability and their underlying significance for the real world.

In 2017, the conference will be organized by Prof. Jarkko Kari (UTU) and Prof. Ion Petre (ÅAU).

Report on Finnish Mathematical Days

Biannual Mathematical Days were held in Turku in the beginning of January. The event was organized by the Finnish Mathematical Society, and Department of Mathematics and Statistics of University of Turku was the local organizer. The number of participants was well over 200 - one of the highest in the history of the days.

All aspects of mathematics research, teaching as well as connections to industry were included. The programme was quite traditional: it contained four invited plenary talks, four invited talks of young researchers, typically from researchers who were awarded recently on their excellent Ph.D. thesis.

In addition there were 24 specialized sessions, each containing three talks. These sessions covered quite well the current spectrum of Finnish mathematics. There were two additional special sessions.

First, a session where a portrait of Anders Lexell was revealed and donated to the rector. Anders Lexell has been considered as the first really international Finnish scientist. He worked in mid-17th in the Academy of Turku as a professor of mathematics. He also worked with Leonard Euler in the Academy of St. Petersburg. He is particularly well known for his research in astronomy. Later this spring there will be a longer seminar on Andes Lexell at University of Turku. On that occasion the portrait will be set up on display at the Department of Mathematics and Statistics in the third floor of Quantum building.

The second special event was a panel discussing and analysing "the careers and challenges of young researchers". The panel was attended, among others, by the rector of the university and docent Tapio Kosunen from the Ministry of Culture and Education.

More information can be found at the home page of the event at math.utu.fi/mathdays2016.

Juhani Karhumäki, chair of the Organizing Committee