Visiting professor Michal Pioro gives the seminar "Optimization of large-scale computer networks"

**Date:** Wednesday, 23. May 2012

Optimization of large-scale computer networks (2 ECTS)
Prof Michal Pioro (Warsaw University of Technology, Poland)

DATES:

21.05.2012 15:00 – 16:00 introduction (1 hour) room C6-E106
22.05.2012 15:00 – 17:00 lecture 1 (2 hours) room C6-E106
23.05.2012 15:00 – 17:00 lecture 2 (2 hours) room C6-E106
24.05.2012 15:00 – 17:00 exercises 1/2 (2 hours) room C6-E106
25.05.2012 15:00 – 17:00 lecture 3 (2 hours) room C6-E106, 17:00 – 18:00 exercises 3 (1 hour) room C6-E106
29.05.2012 15:00 – 17:00 lecture 4 (2 hours) room C6-E106, 17:00 – 18:00 exercises 4 (1 hour) room C6-E106
30.05.2012 15:00 – 17:00 lecture 5 (2 hours) room C6-E106, 17:00 – 18:00 exercises 5 (1 hour) room C6-E106
31.05.2012 15:00 – 17:00 lecture 6 (2 hours) room C6-E101, 17:00 – 18:00 exercises 6 (1 hour) room C6-E101
01.06.2012 15:00 – 17:00 lecture 7 (2 hours) room C6-E101

Course topics:

Summary:
The course will make the participants familiar with basic knowledge on optimization models for large-scale communication and computer network design and planning. The models are based on the multi-commodity flow network theory, and on mixed integer programming (MIP) – the basic optimization approach to real-life engineering problems. The lectures will be accompanied with exercises, illustrating the general models presented during the lectures using a set of representative network-related problems.

Lectures (2 hour units):

2. Linear programming (LP). Basic notions and properties of LP problems. Basic features of the simplex method.

Basic literature:


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