Workshop on Inverse Problems, Data and Mathematical Statistics

and Ecology

May 20-21, 2010 at MAI, Linköping University.

This is a part of the preparatory activities' project "Interdisciplinary Applied Mathematics with Focus on Modelling Subsystems of the Baltic Sea and Arctic Regions", supported by the Nordic Council of Ministers.

This is a interdisciplinary project combining such fields as inverse problems, mathematical statistic and ecology. Here is the program and the location of the workshop:

Thursday 20 May, Nobel, B-huset.

9-9.30 Introduction and presentation of participants

9.30-10.05 Lars Eldén, Linköping University,

Solving III-Posed Cauchy Problems in Three Space Dimensions Using Krylov Methods

10.05-10.40 Petri Ola, University of Helsinki,

Impedance tomography on domains with inaccurately known boundaries

10.40-11 Coffee

11-11.35 George Baravdish, Linköping University,

Parameter identification in PDEs applied to image denoising

11.35-12.10 Sari Lasanen, University of Oulu,

Approximated unknowns in Bayesian inversion

12.10-13.15 Lunch

13.15-13.50 Yakov Nikitin, St. Petersburg University, Russia,

Testing Exponentiality with Application to Historical Data

13.50-14.25 Abdelhamid Hassairi, Sfax University, Tunisa,

Dispersion Exponential Models

14.25-15 Georgy Shevlyakov, St. Petersburg State Polytechnic University, Russia,

Robust Minimax Estimation of a Correlation Coefficient

15-15.20 Coffee

15.20-15.55 Dietrich von Rosen, Energy and Technology, Swedish University of Agricultural Sciences,

The Inverse Problem, EEG Data and Multivariate Statistics

15.55-16.30 Bo Ebenman, Linköping University,

The response of ecosystems to an increasingly variable climate

16.30-17.05 Sergey Vakulenko, St Petersburg,

Complicated bifurcations and chaos onset in scale-free network dynamics

17.05-17.40 Uno Wennergren, Linköping University,

Biodiversity: periodic boundary conditions and spatiotemporal stochasticity

17.40-18.10 Ivan A. Sudakov, St Petersburg,

Modeling Methane Emissions from Thawing Sub-Arctic Permafrost

18.10- Dinner

Friday 21 May, C3, C-huset.

9-9.35 Lauri Oksanen, University of Helsinki, Inverse problem for the wave equation with sources and observations on disjoint sets 9.35-10.10 Tomas Sjödin, Linköping University, Quadrature domains, Hele-Shaw flow and the exterior inverse problem in potential theory 10.10-10.45 Petteri Piiroinen, University of Helsinki, Comparison of two measurement models of convolution type 10.45-11.15 Coffee 11.15-11.50 Vladimir Kozlov, Linköping University, An inverse problem in Glaciology 12.15-13.15 Lunch

Alla är välkomna!

Vladimir Kozlov and Dietrich von Rosen