Programme
Statistical modelling for biological and environmental systems SMBES2011
Monday Sept. 12th to Friday Sept. 16th, 2011 in Venice

Monday
10:30 – 10:45 Coffee and Welcome
10:45 – 12:15 Lecture 1 M Girolami
12:15 – 14:00 Lunch at Trattoria
14:00 – 15:30 Lecture 2 M Girolami
15:30 – 16:00 Break
16:00 – 17:30 Talks session 1 (3 talks)
Dinner contribution

Tuesday
9:00 - 10:30 Lecture 1 M Opper
10:30 – 11:00 Coffee
11:00 – 12:30 Lecture 2 M Opper
12:30 - 13:30 Talks session 2 (2 talks)
13:30 – 15:30 Lunch at Trattoria
15:30 – 16:30 Talks session 3 (2 talks)
16:30 – 17:00 Break
17:00 – 17:30 Talks session 4 (1 talk)

Wednesday
9:00 - 10:30 Lecture B Finkenstadt
10:30 – 11:00 Coffee
11:00 – 12:30 Lecture 1 B Sanso
12:30 - 13:30 Lecture M Kimmel
13:30 – 15:30 Lunch at Trattoria
15:30 – 17:30 Poster Session

Thursday
9:00 - 10:30 Lecture 1 L Held
10:30 -11:00 Coffee
11:00 -12:30 Lecture 2 B Sanso
12:30 - 13:30 Talks session 5 (2 talks)
13:30 - 15:30 Lunch at Trattoria
15:30 - 16:30 Talks session 6 (2 talks)
16:30 - 17:00 Break
17:00 - 17:30 Talks session 7 (1 talk)

Friday
9:30 - 11:00 Lecture 2 L Held
11:00 -11:30 Coffee
11:30 - 13:00 Lecture F Rigat
13:00 Closing and final discussions.
13:30 Lunch in Trattoria

Lectures:
Mark Girolami: Statistical inference for nonlinear dynamic models of biological systems
Manfred Opper: Introduction to continuous-time Markov processes and variational approximations with applications to transcriptional dynamics
Bruno Sanso: A statistical approach to space-time modeling of environmental variables
Leonard Held: Statistical models for the temporal and spatial evolution of stochastic processes
Marek Kimmel: Heterogeneity of proliferating cell populations: Old models and new data
Barbel Finkenstadt: Inference for stochastic population dynamics
Fabio Rigat: Semi-parametric multivariate time series modeling with applications to neural dynamics

Contributed Talks:
Session 1
Sandro Azaele: Temporal and spatial models for species-rich ecosystems
Guy Freeman: Inferring influenza infection from antibody titers using Bayesian mixture modelling
Olawale Awe: On Some Statistical Models for Analyzing Some Environmental Determinants of Health in Africa.

Session 2
Maria Costa: Estimating periodicity of oscillatory time series through resampling techniques.
Susa Niiranen: Challenges and unknowns in environmental change studies - a food web model sensitivity analysis

Session 3
Florian Stimberg: Markov chain Monte Carlo sampler for switching and change-point models
Dafyd Jenkins: A multiple switch point model for analyzing time series gene expression data

Session 4
Mohammad Ohid Ullah : Integrative analysis of PPARalpha dependent pathways in mouse liver and small intestine

Session 5
Dan Woodcock: A Bayesian hierarchical diffusion model for estimating kinetic parameters and cell-to-cell variability
Christiane Dargatz: Diffusion Modelling and Bayesian Parameter Estimation for FRAP

Session 6
Laura Azzimonti: Blood-flow velocity estimation via spatial spline models with PDE penalization
Federica Giardina: A Bayesian geostatistical formulation of seasonal malaria transmission models

Session 7
Jian Qing Shi: Penalized Gaussian Process Regression and Classification for High-Dimensional Data

Posters:

Yiannis Andrianakis: On the application of emulators to sub-grid scale dynamics of oceanic models

Ricardo Alvarado Barrantes: Statistical models in Biogeography

Lilia Carolina Carneiro da Costa: Spatio-temporal Bayesian modeling of social networks

Jürgen Dippon: Modelling Biological Time Series with Multidimensional Ornstein-Uhlenbeck-Processes

Sabine Hug: Bayesian inference of latent causes within a mixture model describing gene regulatory dynamics

Ivan Kondofersky: Estimating hidden components in kinetic systems using functional data analysis

Aronrag Cooper Meeyai: The causes of influenza seasonality: a time series analysis with mechanistic models.

Linda Maria Panero: A statistical approach to modelling the indoor radon concentration.

Andrea Riebler : Bayesian multiple changepoint models with dependence within segments for detecting epigenetic patterns

Monica Rivas Casado: Nonstationarity in rivers and implications for geostatistical analysis

Ali Sabbagh: Statistical properties of spiral waves spatio-temporal chaos and its elimination

Dusan Sovilj: Multistart Strategy using Delta Test for Variable Selection