

Wednesday 9 May

8:15 - 9:00 Registration, coffee, welcome address

9:00 - 10:30 *Chair: Rasmus Waagepetersen*

- Benes, Viktor, O. Sedivy, J. Stanek : **Dimension reduction in random marked sets**
- Drouilhet, Rémy : **EBSpat a R package dedicated to simulation and estimation in the framework of Gibbs nearest-neighbour point processes**
- Legland, David, Marie-Françoise Devaux, Fabienne Guillon: **Analysis of the spatial organisation of maize vascular bundles**

10:30-10:50 *Coffee break*

10:50-12:20 *Chair: Rasmus Waagepetersen*

- Rasmussen, Jakob : **A Sequential Point Process Model for Spatial Point Patterns with Linear Structures**
- Särkkä, Aila, Mari Myllymaki and Ioanna Panoutsopoulou: **Analysis of spatial structure of epidermal nerve entry point patterns based on replicated data**
- Moeller, Jesper : **Statistical aspects of determinantal point processes**

12:20 - 13:45 *Lunch at University restaurant*

13:45 – 15:45 *Chair: Marie-Colette van Lieshout*

- Billiot, Jean-Michel, F. Corset and E. Fontenas : **Continuum Percolation in the β -skeleton Graph**
- Kieu, Kien, Katarzyna Adamczyk , Clémence Kress: **Simulation of chromosome theoretical models using Langevin-Hastings algorithms**
- Bonneau, Mathieu, S. Gaba , N. Peyrard , R. Sabbadin : **Weeds Sampling for Map Reconstruction: a Markov Random Field Approach**
- Peyrard, Nathalie, M. Bonneau, R. Sabbadin: **A Reinforcement-Learning Algorithm for Sampling Design in Markov Random Fields**

15:45 - 16:15 *Coffee break*

16:15 – 17:15 *Chair: Marie-Colette van Lieshout*

- Stankova Helisova, Katerina, Marketa Zikmundova, Viktor Benes : **Estimating parameters in spatio-temporal Quermass-interaction process**
- Stoica, Radu, P. Heinrich, V.C. Tran : **Level sets estimation of random compact sets**

17:40 *Visit of the Palais des Papes.*

19:15 *Wine tasting at « Avitus »: 11, rue du vieux sextier*

Thursday 10th May

8:30 – 10:00 *Chair: Jesper Moller*

- Bethelsen, Kasper, Mari Myllymäki: **Pseudo Bayesian inference for intensity-dependent point processes**
- Ghorbani, Mohammad, Jesper Møller : **Statistical analysis for the Johnson-Mehl germination-growth model**
- Thomas-Agnan, Christine, Florent Bonneu: **A unified framework for measuring industry location characteristics based on marked spatial point processes**

10:00-10:20 *Coffee break*

10:20-12:20 *Chair: Jesper Moller*

- Morsli, Nadia, Jean-François Coeurjolly : **Semi-parametric estimation of the Poisson intensity parameter for stationary Gibbs point processes**
- Mrkvicka, Tomas, M. Muska , J. Kubecka : **Two step estimation for Neyman-Scott point process with inhomogeneous cluster centers**
- Myllymaki, Mari, Pavel Grabarnik, Dietrich Stoyan: **Testing of mark independence for marked point patterns by envelope and deviation tests**
- Waagepetersen, Rasmus : **Unbiased approximate pseudo-likelihood for spatial point processes**

12:20 - 13:45 *Lunch at University Restaurant*

13:45 – 15:15 *Chair: Viktor Benes*

- Soubeyrand, Samuel : **Modeling group dispersal of particles with a spatiotemporal point process**
- Clemmensen, Line : **Comparisons of discriminant analysis techniques for correlated data**
- Guillot, Gilles : **On the simple and partial Mantel tests in presence of spatial auto-correlation**
- van Lieshout, Marie-Colette : **Planar Markov fields**

15:45 - 16:15 *Coffee break*

16:15 – 17:15 *Chair: Viktor Benes*

- Hooghoudt, Jan-Otto : **Inference of within cell protein interactions and spatial structure using Fluorescence Resonance Energy Transfer microscopy**
- Jacobsen, Robert : **Detecting fake paintings**

20:00 *Workshop Dinner at « Pace e Salute », 25 Place des Carmes*

Friday 11th May

9:00 – 10:00 *Chair: Kien Kieu*

- Genton, Marc : **Functional Median Polish, with Climate Applications**
- Senoussi, Rachid : **Inferring epidemiological parameters of space-time dynamics of apple scab in orchards**

10:00-10:30 *Coffee break*

10:30 – 12:00 *Chair: Kien Kieu*

- Ruiz-Gazen, Anne, Peter Filzmoser, Christine Thomas-Agnan: **Identification of local multivariate outliers**
- Allard, Denis, Alessandro Comunian , Philippe Renard, Dimitri D'Or: **Combining probabilities with log-linear pooling : application to spatial data**
- Porcu, Emilio : **Some contributions for second order scalar or vector valued random fields**

12:00 *Lunch at University Restaurant*