

Program

Day 1, Monday, May 17, 2021, 14:00 - 18:30 EEST

14:00 - 14:15 Opening of the workshop [Auditorium](#) Mari Myllymäki

14:15 - 15:50 Session 1.1 [Auditorium](#)

Chair: Giovanni Luca Torrisi

- Ismaila Ba (UQAM, Canada): Pairwise interaction function estimation of Gibbs point processes using basis expansion
- Jiří Dvořák (Faculty of Mathematics and Physics, Charles University, Prague): Nonparametric testing of the dependence structure among points-marks-covariates in spatial point patterns
- Kateřina Koňasová (Department of Probability and Mathematical Statistics, Faculty of Mathematics and Physics, Charles University): Supervised classification in the context of replicated point patterns

15:50 - 16:20 Coffee break, discussion continues:

Ismaila Ba - [Nuuksio](#)

Jiří Dvořák - [Koljatti](#)

Kateřina Koňasová - [Pallas](#)

[Salmiakki](#)

[Sauna](#)

[Sisu](#)

16:20 - 17:55 Session 1.2 [Auditorium](#) hosted by Lauri Mehtätalo

Chair: Frédéric Lavancier

- Nafiseh Vafaei (University of Mohaghegh Ardabili): Testing the first-order separability hypothesis for spatio-temporal point patterns
- Adil Yazigi (University of Eastern Finland (UEF)): Modeling Forest Tree Data Using Sequential Spatial Point Processes
- Emilien Manent (IRMAR Univ. Rennes): Birth-death-move processes : general definition and probabilistic properties.

17:55 - End of day coffee, discussion continues:

Nafiseh Vafaei - [Nuuksio](#)

Adil Yazigi - [Koljatti](#)

Emilien Manent - [Pallas](#)

[Salmiakki](#)

[Sauna](#)

[Sisu](#)

Day 2: Tuesday, May 18, 2021, 14:00 - 18:00 EEST

14:00 - 14:05 Opening of the day [Auditorium](#) Tuomas Rajala

14:05 - 15:40 Session 2.1 [Auditorium](#)

Chair: Jarno Vanhatalo

- Zhuldyzay Baki (University of Twente, CWI): Monitoring seismic hazard in the Groningen gas field
- Jonathan Koh (EPFL): Spatiotemporal wildfire modeling through point processes with moderate and extreme marks
- Cristina Chávez-Chong (ICIMAF, Havana, Cuba): Cross-validation methods for spatially dependent data. A simulation study and application to a spatial analysis of the indicators of the COVID-19 epidemic and their relationship with socioeconomic variables in France

15:40 - 16:10 Coffee break, discussion continues:

Zhuldyzay Baki - [Nuuksio](#)

Jonathan Koh - [Koljatti](#)

Cristina Chávez-Chong - [Pallas](#)

[Salmiakki](#)

[Sauna](#)

[Sisu](#)

16:10 - 17:15 Session 2.2 [Auditorium](#) hosted by Mikko Kuronen

Chair: Klaus Nordhausen

- Christoph Muehlmann (Computational Statistics, Vienna University of Technology): Blind Source Separation for Non-stationary Random Fields
- Emiko Dupont (University of Bath, UK): Spatial+: a novel approach to spatial confounding

17:15 - End of day coffee, discussion continues:

Christoph Muehlmann - [Nuuksio](#)

Emiko Dupont - [Koljatti](#)

[Pallas](#)

[Salmiakki](#)

[Sauna](#)

[Sisu](#)

Day 3: Wednesday, May 19, 2021, 14:00 - 18:30 EEST

14:00 - 14:05 Opening of the day [Auditorium](#) Adil Yazigi

14:05 - 15:40 Session 3.1 [Auditorium](#)

Chair: Vesna Gotovac Đogaš

- Iva Karafiátová (Charles University, Prague): Random tessellations marked with crystallographic orientations
- Richard Vogg (University of Kaiserslautern): Quantitative 3D Image Analysis of Foreign Body Giant Cells
- Konstantinos Konstantinou (Chalmers University of Technology, Göteborg, Sweden): 3D modeling of epidermal nerve fiber patterns

15:40 - 16:10 Coffee break, discussion continues:

Iva Karafiátová - [Nuuksio](#)

Richard Vogg - [Koljatti](#)

Konstantinos Konstantinou - [Pallas](#)

[Salmiakki](#)

[Sauna](#)

[Sisu](#)

16:10 - 17:45 Session 3.2 [Auditorium](#) hosted by Juha Heikkinen

Chair: Radu Stoica

- Louis Jensen (Aarhus University): Semiparametric point process modeling of blinking artifacts in photoactivated localization microscopy
- Mikko Kuronen (Natural Resources Institute Finland (Luke)): Point process models for sweat gland activation observed with noise
- Christophe Reype (Université de Lorraine): Gibbs point processes for the statistical analysis of hydrogeochemical data: a new tool for source detection in multicomponent fluid mixtures

17:45 - End of day coffee and closing of the workshop, discussion continues:

Louis Jensen - [Nuuksio](#) Juha

Mikko Kuronen - [Koljatti](#)

Christophe Reype - [Pallas](#) Mari

[Salmiakki](#)

[Sauna](#)

[Sisu](#)