20th Workshop on Stochastic Geometry, Stereology and Image Analysis

2–7 June, 2019, Sandbjerg Estate, Denmark

Monday, 3 June

08:50-09:00	Welcome
09:00-09:45	Thomas Richthammer How rigid are crystals in 2D? The hard disk model and 2D Gibbsian point processes.
09:45-10:10	Pierre Calka Convex hulls of perturbed random point sets
10:10-10:35	Zbyněk Pawlas Limit theorems for marked particle processes
10:35-11:00	Coffee
11:00-11:25	Joseph E. Yukich Multivariate normal approximation for statistics in geometric probability
11:25-11:50	Chinmoy Bhattacharjee Convergence to scale invariant Poisson processes
11:50-12:15	Ilya Molchanov Random diagonal transformations of convex bodies
12:15-15:00	Lunch break
15:00-15:45	Patrick Rubin-Delanchy Spectral embedding of graphs
15:45-16:10	Steffen Winter On distributional properties of geometric functionals of fractal percolation
16:10-16:45	Coffee
16:45-17:10	Kilian Matzke Triangle condition for the critical random connection model in high dimensions via lace expansion
17:10-17:35	Franz Nestmann Cluster counting in the random connection model
17:35-18:00	Mohammad Ghorbani Functional marked point processes – A natural structure to unify spatio- temporal frameworks and to analyse dependent functional data
18:30-19:30	Dinner

Tuesday, 4 June

09:00-09:45	D. Yogeshwaran CLT for point processes with fast decay of correlations.
09:45-10:10	Günter Last Exponential decorrelation of subcritical repulsive Gibbs particle processes
10:10-10:35	Viktor Beneš Limit theorems for Gibbs particle processes including facet processes
10:35-11:00	Coffee
11:00-11:25	Mathew Penrose Limit behaviour of the coverage threshold
11:25-11:50	Christian Hirsch Optimal stationary markings
11:50-12:15	Olof Elias The fractal cylinder model
12:15-15:00	Lunch break
15:00-15:45	Valentina Cammarota Boundary effect on the nodal length for arithmetic random waves, and spectral semi-correlations
15:45-16:10	Jan Rataj On integral geometric formulas for excursion sets of random fields
16:10-16:45	Coffee
16:45-17:10	Anders Rønn-Nielsen Limits and extremal behaviour of Lévy-based models
17:10-17:35	Mads Stehr Extremal properties over time of an infinitely divisible random field with convolution equivalent Lévy measure
17:35-18:15	Poster flash
18:30-19:30	Dinner
20:00-21:30	Poster session

Wednesday, 5 June

09:00-09:45	Benjamin Taylor Inference Under obfuscation of stochastic processes
09:45-10:30	Peter F. Craigmile Enhancing statistical inference for stochastic processes using modern statistical methods
10:30-11:00	Coffee
11:00-11:25	Anne Marie Svane Testing goodness of fit for point processes via topological data analysis
11:25-11:50	Jesper Møller The structure of stationary time series and point processes when constructing singular distribution functions
11:50-12:15	Ahmad R. Soltani An application of the geometry of random vectors in data analysis
12:15-17:00	Lunch break and excursion
18:30-19:30	Dinner

Thursday, 6 June

09:00-09:45	Rémi Bardenet DPPs everywhere: repulsive point processes for Monte Carlo integration, signal processing and machine learning
09:45-10:10	Adrien Mazoyer Monte-Carlo integration in any dimension using a single determinantal point process
10:10-10:35	Christophe A.N. Biscio A general central limit theorem and subsampling variance estimator for α -mixing multivariate point processes.
10:35-11:00	Coffee
11:00-11:25	Jean-François Coeurjolly Second-order variational equations for spatial point processes with a view to pair correlation function estimation
11:25-11:50	Florian Pausinger Persistent Betti numbers of random Čech complexes
11:50-12:15	Jürgen Kampf The variances of surface area estimators based on pixel configuration counts
12:15-15:00	Lunch break
15:00-15:45	Frédéric Lavancier Asymptotic inference of determinantal point processes
15:45-16:10	Bartłomiej Błaszczyszyn On scattering moments of marked point processes
16:10-16:45	Coffee
16:45-17:10	Matthias Schulte Limit theorems for heavy-tailed Boolean models
17:10-17:35	Lothar Heinrich Some older and newer results on Brillinger-mixing point processes
17:35-18:00	Antoine Brochard Point process generative model with wavelet phase harmonics
19:00-21:00	Conference Dinner

Friday, 7 June

09:00-09:45	Vincent Tassion Sharpness of the phase transition for continuum percolation
09:45-10:30	Elisabetta Candellero Coexistence of First passage percolation processes on hyperbolic graphs
10:30-11:00	Coffee
11:00-11:25	Felix Herold Tessellations in hyperbolic space
11:25-11:50	Hauke Seidel Random sections of regular polytopes and convex cones
11:50-12:15	Ana I. Gomez Modeling the covariogram in 2D length estimation
12:15-14:00	Lunch break and departure