



# 15<sup>th</sup> Workshop on Stochastic Geometry, Stereology, and Image Analysis

## Heinrich Fabri Institute, Blaubeuren, March 22 – 27, 2009



- Judit Abardia** Gauss-Bonnet theorem and Crofton type formulas in complex space forms
- Fatihcan Atay** Cooperative dynamics on time-varying geometric graphs
- Adrian Baddeley** Spatial logistic regression and Poisson point processes
- Felix Ballani** Random marked sets: concepts and second-order characteristics
- Imre Bárány** Recent results on random polytopes: a survey
- Viktor Beneš** Two-sample tests in stochastic geometry: a nonparametric approach
- Andreas Bernig** Algebraic integral geometry
- Eike Biehler** The Poisson rain tessellation: a model of a random tessellation in the plane induced by a Poisson point process
- Alexander Bulinski** Clusters in stochastic models
- Pierre Calka** Visibility in a Boolean model
- Salvino Ciccariello** Integral expressions of the derivatives of the chord length distributions
- Thomas Courtat** A city model and its simulation to explain heterogeneity within streets systems
- Ottmar Cronie** Estimation and edge correction in a spatiotemporal growth-interaction model
- Yann Demichel** On the decay of Gaussian chords' length
- Eduardo Gallego** Hadwiger containment condition in space
- Richard Gardner** Reconstruction in geometric tomography
- Daniel Gentner** The mass-transport principle and applications
- Ute Hahn** Test for model classes of inhomogeneous spatial point processes
- Linda Hansen** Importance sampling in stereology
- Lothar Heinrich** Limit theorems for empirical mark covariance functions of stationary marked point processes
- Kateřina Helisová** Model for random union of interacting discs
- Yukinao Isokawa** Voronoi diagram generated by Fibonacci sequence
- Jürgen Kampf** The parallel volume at large distances
- Wolfgang Karcher** Simulation of stable random fields
- Günter Last** Invariant transports of stationary random measures
- Sebastian Lück** Three-dimensional analysis of the intermediate filament network in pancreatic cancer cells
- Torsten Mattfeldt** Block bootstrap methods for the estimation of the intensity of spatial point patterns with confidence bounds



- Daniel Meschenmoser** Multigrid convergent computation of intrinsic volumes
- Ilya Molchanov** Symmetry properties of multivariate distributions and zonoids
- Frédéric Morlot** An influence-based mobility model
- Tomáš Mrkvička** Normal envelopes in goodness of fit testing
- Maxim Musin** Diameter localization probability bound for a preferential attachment random graph
- Werner Nagel** A random process of tessellations which are stable under iterations
- Zbyněk Pawlas** Empirical distribution functions from marked point processes with dependent marks
- Michaela Prokešová** Palm likelihood estimation for homogeneous and inhomogeneous cluster processes
- Jan Rataj** On some geometric properties of the Brownian path
- Claudia Reidenbach** Realistic models for open foams
- Martin Riplinger** Numerical inversion of the spherical Radon transform
- Jonas Rumpf** Detecting structural variation in tropical cyclone landfall locations
- Hans-Peter Scheffler** On simulation of operator scaling stable random fields
- Martin Schlather** Construction of positive definite functions
- Rolf Schneider** On Poisson hyperplane tessellations
- Tomasz Schreiber** Polygonal web representation for higher order correlations of polygonal Markov fields
- Vadim Shcherbakov** Models of sequential adsorption and their applications
- Malte Spiess** CLT for the area fraction of planar Poisson cylinder processes
- Christoph Thäle** On the length of certain segments in homogeneous STIT tessellations
- Ralf Thiedmann** Stochastic 3D-modeling of the GDL structure in PEM fuel cells based on thin section detection
- Hermann Thorisson** Shift-coupling and invariant allocations
- Eva Vedel Jensen** Rotational integral geometric formulae
- Florian Voß** Distance distributions for stochastic network models
- Steffen Winter** On the surface area of parallel sets
- Joseph Yukich** Intrinsic properties of high dimensional data sets

