



CENTRE FOR **STOCHASTIC GEOMETRY**
AND ADVANCED **BIOIMAGING**

Eleventh Internal CSGB Workshop

Moesgaard Museum (MOMU), 26-27 November 2015

Programme

The workshop will be held at Moesgaard Museum, Moesgaard Allé 15, 8270 Højbjerg.

Thursday 26 November 2015

11.00-12.00 Research talks

- Jakob G. Rasmussen, AAU: *Log Gaussian Cox processes on graphs with Euclidean edges*
- Christophe Bisco, AAU: *Contribution to modelling and parameter estimation in determinantal point processes*

12.00-13.00 Lunch buffet

13.00-14.30 Research talks (continued)

- Sabrina Tang Christensen, AU-math: *Voronoi-based estimation of Minkowski tensors from digitisations*
- Björn Sander, AU-bio: *Towards a toolbox for new single-particle reconstruction algorithms*
- Karl-Anton Dorph-Petersen, AU-bio: *Variance prediction in systematic sampling with errors in sampling locations*

14.30-15.00 Coffee, tea and fruit

15.00-16.00 Research talks (continued)

- Anne Marie Svane, AU-math, and Stefan Sommer, KU: *Anisotropic stochastic processes and sub-Riemannian geometry in the frame bundle*
- Niklas Kasenburg, KU: *Structural parcellation of the thalamus using shortest-path tractography*

16.00-17.00 Forum - ideas, interrelations, updates, discussion issues

- Jens R. Nyengaard, AU-bio: *Update on tissue clearing, automatic registration of neurons and FIB-SEM*
- Jon Sporring, KU: *Scale-space vs. Ripley's K-function*
- Ute Hahn, AU-math: *Tractography - possible directions?*
- Eva B. Vedel Jensen, AU-math: *Estimation of sample spacing*

17.00-18.00 Walk/drive to the restaurant Skovmøllen, Skovmøllevej 51, 8270 Højbjerg

18.00-19.00 Welcome and classical concert at Skovmøllen

19.00-22.00 Dinner buffet at Skovmøllen

Friday 27 November 2015

09.00-10.00 Research talks (continued)

- Markus Kiderlen, AU-math: *Rotational formulae for tensor valuations with applications to particle processes*
- Jan-Otto Hooghoudt, AAU: *Bayesian inference of the spatial distribution of intracellular proteins from FRET data*

10.00-11.00 Group discussions, coffee/tea and fruit

11.00-12.00 Administrative meeting

12.00-13.00 Lunch buffet

13.00-14.00 Possibility for a guided tour to the exhibitions of Moesgaard Museum