Workshop: June 2nd, 2016

Computational Life Sciences: Mathematical modelling, uncertainty quantification and numerical simulation methods

Schedule	Speaker	Title
09:00 - 09:45	Satya Swarup Samal (University of Bonn)	Analysis of biochemical reaction networks using tropical geometry and pathway-based methods
09:45 - 10:30	Ulrich Dobramysl (University of Cambridge)	Particle-based transport modeling: Applications to calcium puffs and filopodia
10:30 - 11:00	Coffee break	
11:00 - 11:45	Nikolaos Sfakianakis (University of Mainz)	A two scales approach in cancer motility and invasion
11:45 - 12:30	Hui Yu (RWTH Aachen)	On the self-organized hydrodynamic models of collective motions
12:30 - 13:45	Lunch break	
13:45 - 14:30	Diane Peurichard (University of Vienna)	Modelling self-organization in biological tissues: From agent-based to continuum models
14:30 - 15:15	Chandrasekhar Venkataraman (University of St Andrews)	Free boundaries on the cell boundary: Understanding biologically relevant asymptotic limits of a model for receptor-ligand dynamics
15:15 - 15:45	Coffee break	
15:45 - 16:30	James Grogan (University of Oxford)	A computational framework for multi-scale vascular tumour growth models