



University
of Glasgow

Cell Modelling using Voronoi Diagrams

Tuesday 23rd June

14:00–16:00

Mathematics Building, University of Glasgow, Room 515

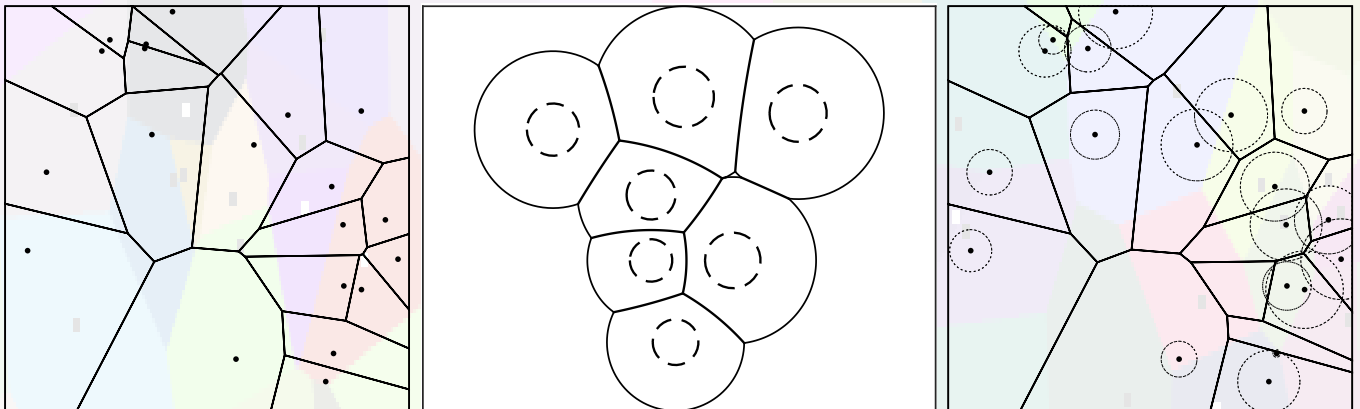
Schedule:

Speaker: Dr. David Bourne (University of Durham)

Lecture 1 14:00-14:50
Coffee break 14:50-15:10
Lecture 2 15:10-16:00

Abstract

Voronoi diagrams are a useful tool for modelling tissue growth at the microscale. This minicourse will start with the basic theory of Voronoi diagrams and an early model of cell motion and division. We will go on to study generalised Voronoi diagrams (power diagrams, multiplicatively-weighted Voronoi diagrams, finite MW-Voronoi diagrams) and correspondingly more realistic models of cell behaviour.



From left to right: A standard Voronoi diagram, a multiplicatively-weighted Voronoi diagram, a power diagram.

All welcome, enquiries: Steven.Roper@glasgow.ac.uk

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