

Understanding Local Modelling

A SASNet Training Seminar

Date: Wednesday 9th November 2016
Venue: Hilton Glasgow Grosvenor, Kelvin Suite
1-9 Grosvenor Terrace, Glasgow, G12 0TA
Presenter: Prof. Stewart Fotheringham, Professor of Computational Spatial
Science and Urban Planning at Arizona State University

PROGRAMME

13h30 – 13h45: **Arrival** with Tea/coffee and biscuits provided
13h45 – 13h50: **Introduction:** Dr. Katarzyna Sila-Nowicka (Research Associate, Urban Big Data Centre) will give an introduction to the seminar within the background context of the SASNet project.
13h50 – 14h50: **Lecture 1:** “Local Modelling”
14h50 – 15h00: Q&A discussion
15h00 – 15h15: Mid-Session Break with Tea/coffee and selection of cakes
15h15 – 16h15: **Lecture 2:** “My model’s BIGGER than yours” (see abstract overleaf)
16h15 – 16h30: Q&A discussion, closing comments

END OF SEMINAR

About SASNet

This training seminar is provided as part of the new ESRC-funded Social Analytics Strategic Network (SASNet). The network, jointly founded by The Urban Big Data Centre (UBDC) and Business and Local Government Data Research Centre (BLGRC) focuses on capacity-building for social analytics of emerging heterogeneous forms of data, including big data. This event is presented by our fourth SASNet fellow from the SASNet Fellowship Programme. Please visit the website (ubdc.ac.uk/our-services/sasnet) or email SASNet@glasgow.ac.uk for more information as well as details on how to get involved in future SASNet events.

Presenter Short Bio:

A. Stewart Fotheringham is Professor of Computational Spatial Science in the School of Geographical Sciences and Urban Planning at ASU. He is also a Senior Scientist in the Ann Wrigley Sustainability Institute. He established both the Centre for GeoInformatics at the University of St Andrews in Scotland and the National Centre for Geocomputation in Ireland. He is a member of the US National Academy of Sciences and the Academia Europaea and a Fellow of the UK's Academy of Social Sciences and serves on the Executive Committee of the Transportation Research Board and on the Evaluation panel for the European Research Council's Consolidator Grants scheme. He was awarded the first Science Foundation Ireland Research Professorship in 2004 and has been awarded over \$15m in funding, published 12 books and almost 200 research papers and book chapters. His research interests are in the analysis of spatial data sets using statistical, mathematical and computational methods. He is well-known in the fields of spatial interaction modelling and local statistical analysis; the latter as one of the developers of Geographically Weighted Regression. He has substantive interests in health data, crime patterns, retailing and migration.



Abstract:

“My model’s bigger than yours”

We seem to be surrounded by evidence suggesting we are in a new era in terms of data analysis – that of **BIG** data. Geography is in the midst of this phenomenon as many of the large data sets that have been produced in recent years have a spatial component. However, another current trend, which is equally important and equally in the domain of geography, has received much less attention: this is the development of **BIG** models. In this seminar, I demonstrate two examples of **BIG** models: one consists of an extension of the well-known Geographically Weighted Regression (GWR) framework; the other is an extension of the traditional ‘family’ of spatial interaction models.