

International Symposium on Spatial-Temporal Analysis and Data Mining (STDM 2011)

Report

This is the second symposium organised by the Working Group on Spatial Analysis and Data Mining of ISPRS Technical Commission II. The motivation for the STDM symposium is to exchange the latest ideas about the deployment of advanced technologies to methods of spatial analysis, spatial-temporal data modelling and data mining. It has been jointly organised by the Department of Civil, Environmental and Geomatic Engineering, and the Department of Geography, University College London on July 18th – 19th, 2011. Over 70 scholars from 22 countries and regions have registered for this symposium – from Australia, Austria, Canada, China, China Taipei, Finland, Germany, India, Italy, Ireland, Israel, Japan, Malta, Portugal, The Netherlands, Spain, Slovenia, Sweden, Switzerland, Turkey, the UK and the USA.

The symposium was organised into seven sessions, demonstrating the breadth of the subject. It includes four sessions on methods and algorithms, including *“Space-Time Regression”*, *“Space-Time Clustering”*, *“Space-Time Prediction”*, and *“Fuzzy Approaches”*. Two sessions contribute to applications: *“Mobility & Location”* and *“Health”*. Finally, one session focuses upon digital infrastructure - *“Service & Management of Space-Time Data”*. There were 24 papers accepted for oral presentations in the symposium, and best papers will be published in a special issue of *GeoInformatica*.

Prof. Ian Dowman, the first vice president of ISPRS, kindly opened the symposium. Four world-leading scholars gave keynotes in the Symposium. They covered *‘What is Special about Mining Spatial and Spatio-Temporal Datasets?’* (Shashi Shekhar, University of Minnesota, USA); *‘Graphical and Analytical Techniques in Space-Time Analysis’* (Chris Brunsdon, University of Liverpool, UK) and *‘Why Topology and Scaling Matter in Geospatial Analysis’* (Bin Jiang, University of Gävle, Sweden). Another keynote session - *‘Visualising Space-Time Dynamics: Graphs and Maps, Plots and Clocks’* was contributed by Mike Batty, CASA, UCL, as a joint event with the 11th International Conference on Geocomputation, which ran immediately after the Symposium at same location. A joint reception was held after this keynote session to foster closer dialogue between participants to this Symposium and the Geocomputation Conference which attracted 130 participants from 19 countries and regions.

Prof. Shashi Shekhar, editor-in-chief of Geoinformatica, commends the high standard and uniqueness of this symposium that space and time are modelled and analysed in an integrated way, which has not been widely recognised elsewhere. Given the high quality of the conference papers, a special issue of selected papers will be published in Geoinformatica (SCI).

Tao Cheng

Co-chair of ISPRS WG II/3

University College London