

GIS Research UK (GISRUK) – University of Liverpool 2013

Sessions in stream **A** are located in Lecture Theatre D (Central Teaching Hub)

Sessions in stream **B** are located in Lecture Theatre C (Central Teaching Hub)

Keynote Talks are located in: Lecture Theatre B (Central Teaching Hub)

4 paper sessions – 20 minutes / paper inc. questions

5 paper sessions – 15 minutes / paper inc. questions

[YR = Young Researcher]

Wednesday 3rd April

12.00 – 1.30 Registration open for main conference

1.30 Welcome and Opening Address

13.50 – 14.50 **Keynote: Professor Paul Longley (University College London) (sponsored by Pion)**
 “A name is a statement.” some implications for geo-genealogy, geo-temporal demographics and social networking.

14.50 – 16.10	Session 1A (Spatial Statistics)	Session 1B (Health Geography)
	<i>Robust geographically weighted principal components analysis and its use in sample re-design</i> (Paul Harris, Chris Brunsdon, Martin Charlton, Steve Juggins and Annemarie Clarke.)	<i>Spatial and Temporal Analysis of Bronchiolitis in England & Wales, 2004-2010</i> (Paul Norman, Helen Durham, Lynette Akong and Roger Parslow)
	<i>Street Value: Assessing Non-Euclidean Metrics in Spatial Analysis Applied to Property Values</i> (Chris Brunsdon)	<i>Analysing the Impact of MAUP on the March of Atopy in England using Hospital Admission Data</i> (Nick Bearman, Nicholas Osborne and Clive Sabel)
	<i>GWmodel: an R package for exploring spatial heterogeneity</i> (Binbin Lu, Paul Harris, Isabella Gollini, Martin Charlton and Chris Brunsdon)	<i>A Multilevel Model of the Prevalence of Depression in Ireland</i> (Karyn Morrissey)
	<i>Modelling Spatial Heterogeneity: a Local Approach or a Global Approach?</i> (Guanpeng Dong and Richard Harris) YR	<i>Geocoding routinely collected administrative data to measure access to alcohol outlets in Wales</i> (Richard Fry, Jennifer Morgan, Scott Orford, Sarah Rodgers and David Fone)

16.10 – 16.40

Tea / Coffee

16.40 – 18.00	Session 2A (Geospatial Analysis)	Session 2B (Environment and Society)
	<i>Modelling non-residential demand for store location planning - a case study of visitor grocery expenditure in Cornwall</i> (Andy Newing, Graham Clarke and Martin Clarke) YR	<i>A Spatial Analysis Of Potential Local Climate Change Impacts and Their Relationship with Land Use Changes</i> (Alexis Comber and Chris Brunsdon)
	<i>A Comparison of GIS-based Location Allocation Heuristics: Minimise Impedance vs Grouping Genetic Algorithm p-median</i> (Ibrahim Alshwesh, Alexis Comber and Chris Brunsdon) YR	<i>Participatory monitoring of poaching in the Congo basin</i> (Michalis Vitos, Matthias Stevens, Jerome Lewis and Muki Haklay) YR

16.40 – 18.00	Session 2A (Geospatial Analysis)	Session 2B (Environment and Society)
	<i>Space Time Data Mining of Reporting of Injuries, Diseases and Dangerous Occurrences Regulations Data (Linda Blade) YR</i>	<i>Geovisualization of urban densities using GIS: Case Study in Colombo Metropolitan Area, Sri Lanka (Padma Weerakoon)</i>
	<i>Walking up “Scenic” Hills: Towards a GIS Based Typology of Crowd Sourced Walking Routes (Liam Bratley, Alex Singleton and Chris Brunsdon) YR</i>	<i>The role of GIS in multi-scale impact assessment of explosive volcanic eruptions: case-study of Concepción volcano, Nicaragua (Chiara Scaini and Arnau Folch) YR</i>
		<i>Creating a national, accurate Digital Surface Model for use on small-scale inter-visibility assessments (David Lock and Jim Wright)</i>

18.30 – 20.00	Evening Reception (Victoria Galleries Museum) – buffet and drinks
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Thursday 4th April

9.00 – 10.20	Session 3A (Multi scale decisions and place)	Session 3B (Transport Networks)
	<i>Geodemographics and its place in the history of planning methods</i> (Peter Batey)	<i>CO2 Emissions and the Pupil School Commute</i> (Alex Singleton)
	<i>Geo-EEG: Towards the use of EEG in the study of urban behavior</i> (Panagiotis Mavros) YR	<i>Model behaviour: GPS v GIS to examine our journey to work</i> (Alice Dalton, Andrew Jones and David Ogilvie)
	<i>Everyday cycling in urban environments: Understanding behaviours and constraints in space-time</i> (Godwin Yeboah and Seraphim Alvanides) YR	<i>Revealing and Informing Transport Behaviour from Bicycle Sharing Systems</i> (James Cheshire and Oliver O'Brien)
	<i>24/7 Population modelling for enhanced assessment of exposure to natural hazards</i> (Alan Smith, David Martin and Samantha Cockings) YR	<i>Matching GPS Data to Transport Networks</i> (Adel Bolbol and Tao Cheng) YR

10.20- 10.50

Tea / Coffee

10.50 – 12.10	Session 4A (Software, Systems and Design Processes)	Session 4B (Population and GIS)
	<i>Cyberinfrastructures for Mobile Lidar</i> (Martin Charlton, Paul Lewis, Conor McElhinney and Tim Mccarthy)	<i>Assessing the Spatial Structure of Population Variables in England</i> (Chris Lloyd)
	<i>An approach towards considering users' requirements in transport data visualisation</i> (Garavig Tanaksaranond, Artemis Skarlatidou and Tao Cheng) YR	<i>Geodemographic Classifiability</i> (Paul Williamson)
	<i>NoSQL storage and management of geospatial data with emphasis on serving geospatial data using standard geospatial web services</i> (Pouria Amirian, Adam Winstanley and Anahid Basiri)	<i>Scales of ethnic segregation in England and Wales, 1991-2011</i> (Gemma Catney)
	<i>Automating Standards-Based Metadata Creation using Free and Open Source GIS Tools</i> (Claire Ellul, Nart Tamash, Feng Xian, John Stuiver and Patrick Rickles)	<i>Creating Population Surfaces using Information on the Spatial Structure of Variables</i> (Chris Lloyd, Paul Williamson, Gemma Catney, Chris Brunsdon and Alex Singleton)
	<i>Crowdsourced geodata and the semantic web: a use case</i> (Gianfranco Gliozzo) YR	

12.10 – 13.00

Keynote: Professor Jason Dykes (City University, London)

Title: TBC

13.00 - 14.00

Lunch

13.00 - 14.00 ESRI software demonstration (Lecture Theatre D, University Lecture Rooms Building)

13.00 – 14.00 GISRUUK Steering Committee Meeting

14.00 – 15.20	Session 5A (Applied GIS and Human Interaction)	Session 5B (Algorithms and Agents)
	<i>Analogue-digital conversion of a geological arsenic map for skin cancer epidemiology</i> (Gyula Kothencz, Benedict Wheeler and Adam Pollard)	<i>Defining Retail Conurbations: Using a Rules-based Algorithm</i> (Matthew Pratt, Jim Wright, Samantha Cockings and Iain Sterland) YR
	<i>Modelling and visualising the impacts of increasing fuel costs on the UK spatial economy</i> (Daniel Olnier, Alison Heppenstall and Gordon Mitchell)	<i>Geographical Text Analysis: GIS approaches to analysing large volumes of texts</i> (Ian Gregory, Alistair Baron and Patricia Murrieta-Flores)
	<i>An area-based GIS Energy Model for cities and neighbourhoods</i> (Philip James, Carlos Calderon and Javier Urquizo) YR	<i>Estimation of the Subjective Topological Structure of Action Spaces using Learning Agents</i> (Ed Manley) YR
	<i>Creating a customisable mapping and data capture app for the HEFE community</i> (Addy Pope and Ben Butchart)	<i>Testing geographically weighted multicollinearity diagnostics</i> (Stamatis Kalogirou)

15.20 - 16.00 Poster Session (See list of posters at the end of the timetable)

15.20 - 16.30 Landmap Practical Demonstration

16.00 – 16.30 Tea / Coffee

16.30 – 17.50	Session 6A (Public Sector Applications)	Session 6B (Web Mapping and Analysis)
	<i>Exploring the Geography of Access to Fixed Line Broadband Services in England using Crowd Sourced Speed Check Data</i> (Dean Riddlesden and Alex Singleton) YR	<i>Development and application of a neogeographical “spray-can” tool for fuzzy geographical analysis</i> (Jonathan Huck, Duncan Whyatt and Paul Coulton) YR
	<i>Exploring the impact and effectiveness of the ‘Project Optimal’ Burglary Reduction Initiative in Leeds: A Spatio-Temporal Approach</i> (Nicholas Addis) YR	<i>Sustainable Mapping Projects: Missing ingredients in the Kibera Formula?</i> (William Mackaness, Candela Sanchez-Rodilla Espeso and Robin McLaren)
	<i>Using MOT records to estimate local level vehicle annual mileages</i> (Rachel Moyce and Daryl Lloyd)	<i>A geodemographic analysis of the ethnicity and identity of Twitter users in Greater London</i> (Muhammad Adnan, Guy Lansley and Paul Longley)
	<i>Modelling Spatial Extents of Village Territories from Postal Address Records</i> (Firdos Almadani, Peter Fisher and Claire Jarvis) YR	<i>Using Salient Landmarks to Guide a User’s Gaze towards a Target Entity</i> (Phil Bartie and William Mackaness)

18.30 – 22.00 City Bus tour followed by dinner at Carnatic hall (Sponsored by Ordnance Survey)

Friday 5th April

9.00 – 10.20	Session 7A (The Natural and the Physical Environment)	Session 7B (Movements in Space and Time)
	<i>Identifying candidate causal relationships in fish movement patterns</i> (Susanne Bleisch, Matt Duckham, Jarod Lyon and Patrick Laube)	<i>The effect of Initial Random Aggregation (IRA) on the analysis and modelling of internal migration</i> (Konstantinos Daras, John Stillwell and Martin Bell)
	<i>Framing Nature: Visualising Ecosystem Services using Augmented Reality</i> (Sarah Taigel, Andrew Lovett and Katy Appleton) YR	<i>Optimising an Agent-Based Model to Explore the Behaviour of Simulated Burglars</i> (Nick Malleson, Alison Heppenstall, Linda See and Andrew Evans)
	<i>Public interpretation of land and sea use using visualisation tools</i> (Chen Wang, Gillian Donaldson-Selby, David Miller, Paula Horne and Jane Morrice) YR	<i>Optimising location under scenarios of changing demand: multi-temporal location allocation analysis</i> (Emeka Chukwusa, Alexis Comber and Chris Brunsdon) YR
	<i>Can binning be the key to understanding the uncertainty of DEMs?</i> (Juha Oksanen)	<i>Historical Internal Migration in Ireland</i> (Mary Kelly, Aidan Slingsby, Jason Dykes and Jo Wood)
	<i>Mapping physical and visual accessibility of greenspace</i> (David Miller, Paula Horne, David Donnelly and Jane Morrice)	

10.20 - 10.50

Tea / Coffee

10.50 – 12.10	Session 8A (Applied GIS and Visualisation)	Session 8B (People, Places and Pedagogy!)
	<i>Effects of Land Cover resolution on spatially distributed demand surfaces: the binary dasymmetric approach</i> (Idris Jega Mohammed, Alexis Comber and Nicholas Tate) YR	<i>"Gis us a clue!" Quantitative Methods teaching in the geography departments of UK Schools and Universities</i> (Richard Harris, Katharine Fitzpatrick and Catherine Souch)
	<i>Types, Granularities and Combinations of Geographic Objects in the Haiti Crisis Map</i> (Iain Dillingham, Jo Wood and Jason Dykes) YR	<i>Google Maps 'Journey-immersion' - Can the Google Maps API allow the creation of a narrative, to take the user on a journey and to tell a story using dynamic progression through time and space?</i> (Jon Slade, Claire Ellul and Maurizio Gibin)
	<i>An Innovative Heat Mapping Methodology and GIS Tool to Support Offshore Wind Farm Site Selection Projects</i> (Richard Marlow)	<i>Understanding Community Mapping as a Socio-Technical Work Domain</i> (Mark Iliffe, Robert Houghton and Jeremy Morely) YR
	<i>The Use of Crowd Sourced Data to Validate Global Land Cover Datasets</i> (Alexis Comber, Linda See, Steffen Fritz, Marijn van der Velde and Christoph Perger)	<i>SpaceBook: Designing and Evaluating Spoken Dialogue Based Systems for Urban Exploration</i> (William Mackaness, Phil Bartie, Tiphaine Dalmas, Srinu Janarthanam, Oliver Lemon, Xingkun Liu and Bonnie Webber)

12.10 – 13.00 **Keynote: Professor Harvey Miller (The University of Utah)**
 Title: Location and Cooperation: Avoiding Collective Failures through Geographic Information Science

1.00 – 13.30 Prizes and Introduction to GISRUUK 2014
13.30 Conference Closes

Posters

Title	Author(s)
<i>Open Data Sources for Domain Specific Geodemographics</i>	Matthew Pratt, Paul Longley, James Cheshire and Chris Gale
<i>Enhancing Positioning of Photovoltaic Panels Using 3D Geographic Information</i>	Kelvin Wong and Claire Ellul
<i>'Freelocation': combining open-source data and methods for accessible location analysis</i>	Robin Lovelace
<i>Applications of Open Data in health care planning and assessing health inequalities</i>	Jens Kandt, Daniel J. Lewis and Paul A. Longley
<i>The Usability of Online Data Maps: An Ongoing Web Based Questionnaire Investigation into Users' Understanding and Preference for Geo-Spatial Visualisations</i>	Craig Allison, Richard Treves and Edward Redhead
<i>Ontological modelling of cartographic generalisation</i>	Nick Gould, Nicolas Regnauld and Jianquan Cheng
<i>Developing a GEO Label: Providing the GIS Community with Quality Metadata Visualisation Tools</i>	Victoria Lush, Lucy Bastin and Jo Lumsden
<i>Automated Assessment and Improvement of OpenStreetMap Data</i>	Musfira Jilani, Padraig Corcoran and Michela Bertolotto.
<i>Digital Literary Geographies: A Spatial Analysis of Lake District Landscape Writings, 1750-1900</i>	Patricia Murrieta-Flores, David Cooper and Ian Gregory
<i>Real-time Geosensors for Air Quality Modelling</i>	Neil Harris, Phil James and Fabio Galatioto
<i>Landmark-based pedestrian navigation</i>	Anahid Basiri, Adam Winstanley and Pouria Amirian
<i>Open source approaches to integration of geo-spatial data at the water catchment scale</i>	Peter Metcalfe and Keith Beven
<i>Spatiotemporal Analysis of User-Generated Data on the Social Web</i>	Soha Mohamed and Alia Abdelmoty
<i>Digital image of the city during and after mega-event: Poznan, EURO 2012 and Twitter users</i>	Michal Rzeszewski
<i>Integrating Qualitative Representation and Reasoning with GIS</i>	Khalid Almuzaini and Alia Abdelmoty