

GISRUK 2007: PROVISIONAL PROGRAMME

Tues 10th 02:00 - 5:30	Workshop: Voronoi Methods in GIS John Hume 7	Young Researchers Forum John Hume 4
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Wed 11th 09:00 - 1:00	Workshop: Teaching and Researching Geospatial Analysis: principles, techniques and software tools John Hume 6	Young Researchers Forum John Hume 4
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Wed 11th	OPENING SESSION John Hume Theatre 3	
2:00	Conference Opening Ceremony	
2:10	SFI Keynote Presentation The Disappearing GIS Mike Worboys	

2:55	Tea/coffee served on John Hume 1st floor	
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3:20-4:30	Section 1A: PUBLIC PARTICIPATION John Hume 3	Section 1B: EDUCATION John Hume 4	Section 1C: DATA CAPTURE John Hume 6
	Towards a post-colonial GIS <i>Kate Moore</i>	Modifying the 2001 Census Output Area Classification (OAC) for applications in Higher <i>A. Singleton, P. Longley.</i>	Inertial Navigation Sensor and GPS integrated for Mobile mapping <i>Stephen Foy, Catherine Deegan, Ciara Mulvihill, Conor Fitzgerald, Charles Markham, Simon McLoughlin.</i>
	Educational Planning in Palestine: the role of PPGIS <i>Khitam Shraim & Richard Kingston</i>	Avalanche education with mLearning <i>Christoph Suter, Ross S. Purves and Stephan</i>	A Model for the Representation of Evolving Road Features <i>Alex Lohfink</i>
	Examining the potential of Internet-based Geographical Information Systems for promoting public participation in wind farm planning in the UK <i>Robert Berry, Gary Higgs, David Kidner and Mitch Langford</i>	Towards a Framework for Supporting GIS Competencies in Local Government <i>Ann Hockey</i>	A GIS tool for the digitisation and visualisation of footpath hazards <i>John R. Tullis</i>
	Developing and Applying a User-friendly Web-based GIS for Participative Environmental Assessment <i>A. Gonzalez, A. Gilmer, R. Foley, J. Sweeney & J. Fry</i>	Using GIS data in a m:n-ACK cellular automaton to perform an avalanche simulation <i>Pau Fonseca i Casas, Santiago Rodríguez Fontoba</i>	

4:30-6:00	Section 2A: META-DATA AND ONTOLOGY John Hume 3	Section 2B: ENVIRONMENT John Hume 4	Section 2C: TRANSPORT John Hume 6
	Implementing ISO-compliant Feature Metadata <i>James K Batcheller, Femke Reitsma, Bruce M Gittings</i>	GIS data capture of glacier change in western Canada <i>Roger Wheate, Nancy Alexander and Brian Menoumos</i>	A Framework for Network-based Vehicle Navigation Systems <i>Qingquan Li, Lin Xu, Bijun Li, Bisheng Yang</i>
	Approaches for providing user relevant metadata and data quality assessments <i>A.J. Comber, P.F. Fisher, R.A. Wadsworth</i>	Application of GIS and logistic regression to fossil pollen data in modelling present and past spatial <i>S.G.A. Flantua, J.H. van Boxel, H. Hooghiemstra,</i>	The application of Inter-Vehicle Communication system to ITS <i>Lei Yan, Maria Kihl, Yuefeng Liu, Lina He</i>
	Relating Land Use to the Landscape Character: Toward an Ontological Inference Tool <i>M. K. Thomson, R. Béra</i>	Developing a Seabed Resurvey Strategy: A GIS approach to modelling seabed changes and resurvey <i>A. M. Bakare, J. Morley, R. Simons</i>	A GIS based approach to Predicting Road Surface Temperatures <i>Richard Fry, Lionel Slade, George Taylor and Ian Davy</i>
	Spatial Concepts in a Topographic Ontology Framework <i>K. Kovacs, C. Dolbear and J. Goodwin</i>	Extracting Dynamics of Multiple Indicators for Spatial recognition of Ecoclimatic zones in Circum- <i>Didier Leibovici, Gilbert Quillevère</i>	Burning Algorithm for Route Planning of Multi-Mode Public Transport Networks <i>Zheng Jianghua, Liu Zhihui and Zhang Xin</i>
Using Structured English to Author a Topographic Hydrology Ontology <i>Glen Hart, Catherine Dolbear, Katalin Kovacs, John Goodwin, Sheng Zhou</i>	Understanding Risk on Volcanic Islands: a Research Agenda <i>C. J. Lowe, M. Haklay, P. Longley, W. J. McGuire</i>	GIS Support for Sustainable Regional Transport System <i>Jianquan Cheng, Frank le Clercq, Luca Bertolini, Loek Kapoen</i>	

6:30	Coaches depart from South campus main gate	
7:30	Tour, whiskey tasting, dinner and shindig at Old Jameson's Distillery, Smithfield, Dublin	

Thur 12th 09:00-10:30	Section 3A: GEODEMOGRAPHICS John Hume 3	Section 3B: REMOTE SENSING John Hume 4	Section 3C: VISUALISATION Arts 1
	Putting geography back into geodemographics <i>Martin Callingham</i>	Synthesis and Modification of Remotely Sensed Imagery <i>Stephen Brooks</i>	Geographically weighted visualization - interactive graphics for scale-varying exploratory analysis <i>Chris Brunsdon, Jason Dykes</i>
	Health Applications for Open Geodemographics <i>J. Petersen, D. Ashby and P. Atkinson</i>	Satellite Image Data Service - Providing New Geodata Services and Satellite Imagery <i>G. R. Millin, K. Kitmitto</i>	Understanding geovisualization users and their requirements - a user-centred approach <i>David Lloyd and Jason Dykes</i>
	TravelStyle: Berlin's First Geodemographic Profiling Tool <i>T. Duckenfield, S. Quan, N. Rudolf</i>	Segmentation Evaluation for Object Based Remotely Sensed Image Analysis <i>Padraig Corcoran & Adam Winstanley</i>	Towards a Comprehensive Multilayer Hybrid Display for GIS Data <i>Stephen Brooks and Jacqueline L. Whalley</i>
Assessing Population Surface Models using the Northern Ireland Census Grid Square Resource <i>C. D. Lloyd, D. J. Martin, I. G. Shuttleworth</i>	Automatic computation of river channel bifurcation angles <i>Jonathan Hasthorpe and Nick Mount</i>	Marine GIS: 3D Graphics Applied to Maritime Safety <i>R. I. Goralski, C. M. Gold</i>	

10:30	Tea/coffee served on John Hume 1st floor	
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Trade, book and software exhibition (John Hume first floor)

11:00-11:50	Section 4A: LOCATION-BASED SERVICES John Hume 3	Section 4B: DIGITAL ELEVATION MODELS John Hume 4
	Urban Location Based Services using Mobile Clients: the ICIING approach <i>Eoin Kilfeather, James Carswell, Keith Gardener, Seamus Rooney</i>	A Dual-frequency GPS survey to test medium-scale DTM data quality and to generate precise DTM data for sea-level rise prediction in protected habitat areas. <i>Seamus Covenev, Stewart Fotheringham, Martin Charlton, John Sweeney</i>
	Ask the expert: The potential for location-based support in the fire service <i>Jim Nixon, Sarah Sharples, Mike Jackson</i>	Accuracy Assessment of Digital Elevation Models Based on Approximation Theory <i>XiaoHang Liu, Peng Hu</i>
	A Synchronised Virtual Environment for Developing Location-Aware Mobile Applications <i>Gary Priestnall, Gemma Polmear</i>	A tool for assessing error in digital elevation models from a user's perspective <i>A. R. Darnell, N. J. Tate, and C. Brunsdon</i>

11:50-12:35	INVITED PRESENTATION John Hume 3 Representation and Computation of Geographic Dynamics <i>Michael Goodchild</i>
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12:45-1:45	Lunch in Pugin Hall, South Campus
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2:00-2:45	INVITED PRESENTATION John Hume 3 Charting a course for network research: GEOIDE's research directions <i>Nicholas R. Chrisman</i>
	POSTER SESSION Brief presentations: John Hume 3 Tea/coffee and Posters: John Hume first floor

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3:45-5:45	Section 5A: CATCHMENTS AND MOBILITY John Hume 3	Section 5B: GI SYSTEMS AND ANALYSIS John Hume 4
	Commuting in Northern Ireland: Exploring Spatial Variations through Spatial Interaction Modelling <i>C. D. Lloyd, I. G. Shuttleworth, G. Catney</i>	EuroSDR a multi-level network linking European Geoinformation production with Research and Development <i>Kevin Mooney</i>
	Measuring Pedestrian Accessibility <i>Kamalasudhan Achuthan, Helena Titheridge and Roger Mackett</i>	Representing Spatial Geographical Data via variations of Volume and Tempo in Sound <i>Nick Bearman and Nicholas J. Tate</i>
	Kernel Density Estimation and Percent Volume Contours in General Practice Catchment Area Analysis in Urban Areas <i>Maurizio Gibin, Paul Longley, Phil Atkinson</i>	Analysing mouse movements to infer spatial interests <i>E. Mac Aoidh, M. Bertolotto</i>
	Modelling Commuting Catchments in Ireland: A Hierarchical Approach using GIS. <i>Meredith, D., Charlton, M., Foley, R., and Walsh, J.</i>	A comparison of morphometric and web prominence of mountain features <i>Ian Greatbatch, Jo Wood, Peter Fisher</i>
	Exploring the effect of a new railway on trips and travel as a component of personal mobility in rural West Yorkshire, 1840-1900 <i>Susan Major</i>	A Classification of Spatial Processes Based on PDEs <i>Barbara Hofer</i>
	Modelling school catchments for segregation studies <i>R. Harris, R. Johnston, S. Burgess, D. Wilson</i>	A Comparison between using OS Landline™ and Mastermap™ Products as a Means for identifying Socio-environmental Areas in an Urban-Rural Mosaic <i>Nigel Walford and Richard Armitage</i>
		The use of Kohonen mapping for the elucidation of space-time trajectories of multiple parameters: potential applications in fluvial geomorphology. <i>Dan Weaver and Nick Mount</i>

7:30	Conference dinner in Glenroyal Hotel, Maynooth Late Bar until 1am
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Friday 13th 09:00-10:15	Section 6A: DATA AND INFORMATION CAPTURE Arts 1	Section 6B: DATA MODELLING Arts 2
	Automatic identification of Hills and Ranges using Morphometric Analysis <i>Omair Chaudhry and William Mackaness</i>	Quantifying Urban Visibility Using 3D Space Syntax <i>C. Schroder, W. Mackaness, F. Reitsma</i>
	Classifying Buildings Automatically: A Methodology <i>Masroor Hussain; Chris Daves; Robert Barr</i>	Confidence and Groundwater Flood Mapping <i>AA Mckenzie, JP Bloomfield, A Hulbert and HK Rutter</i>
	Empirical experiments on the nature of Swiss mountains <i>Curdin Derungs and Ross S. Purves</i>	Spatiotemporal Data Model for Managing Volumetric Surface Movement Data in Virtual Geographical Information Systems <i>M.R.M. Shafry, M.S.A. Rashid, M. Shattri, M.A. Rodzi, D. Daut</i>
Extending Irregular Cellular Automata with Geometric Proportional Analogies <i>Diarmuid P. O'Donoghue, Emma-Claire Mullally</i>	A First Step Towards the Automated Production of Incident Demarcation Zones: The Need for An Intelligent Hybrid Modelling Approach <i>V. Karasová, R. Abrahart, M. Jackson, G. Priestnall,</i>	

10:30	Tea/coffee served on John Hume 1st floor
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10:45-12:00	Section 7A: GENERALISATION Arts 1	Section 7B: SPATIAL STATISTICS Arts 2
	Morphing Polygonal Lines: A Step Towards Continuous Generalization <i>D. Merrick, M. Nillenburg, A. Wolff, M. Benkert</i>	Fuel Poverty in Scotland: refining spatial resolution in the Scottish Fuel Poverty Indicator using a GIS based multiple risk index <i>Colin Morrison and Niamh K Shortt</i>
	Comparison of region approximation techniques based on Delaunay Triangulations and Voronoi Diagrams <i>Michael Barclay and Antony Galton</i>	Housing stock surveys in GIS systems using pattern recognition <i>S. C. Lannon, D. K. Alexander, P. J. Jones</i>
	Representing Forested Regions at Small Scales: Automatic Derivation from the Very Large Scale. <i>W. Mackaness, S. Perikleous, O. Chaudhry</i>	Spatial Trends of unpaid caregiving in Ireland <i>Stamatis Kalogirou, Ronan Foley</i>
	Automated schematic map production using Simulated Annealing and Gradient Descent approaches <i>Suchith Anand, Silvana Avelar, J. Mark Ware, Mike Jackson</i>	The Spatial Disaggregation of GB and European Agricultural Land Use Statistics <i>Colin J. McClean</i>
	Characterising Linear Point Patterns <i>J.A. Downs and M.W. Horner</i>	A combined pycnophylactic-dasytetric method for disaggregating spatial data: the example of agricultural land use <i>Alexis Comber, Chris Proctor, Steve Anthony</i>

12:00-12:45	INVITED PRESENTATION
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	<p>John Hume 3 Building a Spatial Data Infrastructure for Europe: the many research questions for which we need answers. <i>Max Craglia and Alessandro Annoni</i></p>
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12:45 - 1:45	<p>Closing session Lunch and prize-giving in Pugin Hall, South Campus</p>
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