Welcome to the Urban Big Data Centre Inaugural Workshop
Please visit www.ubdc.ac.uk for more information.
Twitter: @UrbanBigData   **Event Hashtag:** #UBDClaunch

AGENDA

Please note the final 15 minutes of each presentation will be allocated to Q&A.

1:30pm - 2:00pm Guest Reception Sign-in
- Refreshments and light lunch available prior to event

2:00pm - 2:15pm Welcome and Introduction
- Prof Piyushimita (Vonu) Thakuriah, Director, Urban Big Data Centre; Halcrow Chair of Transport, Professor, Urban Studies; Affiliated Professor, School of Engineering, University of Glasgow

2:15pm - 3:00pm Modelling across scales and time: from urban to global, from ancient to modern
- Sir Alan Wilson FBA, FRS, Professor of Urban Regional Systems, Centre for Advanced Spatial Analysis, University College London; Chair, Lead Expert Group, Foresight 'Future of Cities' Project, Government Office for Science

20 minute comfort break

3:20pm - 4:00pm Urban Big Data Multi-Sectoral Model
- Prof Gwilym Pryce, Director, Sheffield Methods Institute; Professor of Urban Economics and Social Statistics, University of Sheffield
- Prof Geoff Meen OBE, Head of School, Professor of Applied Economics, University of Reading

4:00pm - 4:40pm Cities in the Age of Analytics
- Dr Glenn Geers, Technology Director of Infrastructure, Transport and Logistics, National ICT Australia (NICTA); Conjoint Associate Professor, School of Computer Science and Engineering, University of New South Wales

4:40pm - 4:45pm Closing Remarks

Related Publications and Further Reading

Modelling across scales and time: from urban to global, from ancient to modern (Wilson)

- Bevan, A. and Wilson, A. G., 2013. Models of settlement hierarchy based on partial evidence. *Journal of Archaeological Science, 40 (5), pp. 2415-2427.* http://dx.doi.org/10.1016/j.jas.2012.12.025
- Davies, T., Fry, H., Wilson, A. G., and Bishop, S.R., 2013 A mathematical model of the London riots and their policing. *Nature Scientific Reports 3, 1303.* doi:10.1038/srep01303
- Davies, T., Fry, H., Wilson, A., Palmisano, A., Altaweel, M. and Radner, K. 2014. Application of an Entropy Maximizing and Dynamics Model for Understanding Settlement Structure: The Khabur Triangle in the Middle Bronze and Iron Ages. ***Journal of Archaeological Science*** doi:10.1016/j.jas.2013.12.014.
- Wilson, A.G., 2012. *The Science of Cities and Regions: Lectures on Mathematical Model Design.* London: Springer.
- Wilson, A. G. and Dearden, J., 2011. Tracking the evolution of regional DNA: the case of Chicago. In: M. Clarke and J.C.H. Stillwell, eds. *Understanding population trends and processes.* Berlin: Springer, Chp. 1, pp. 209-222.

Urban Big Data Multi-Sectoral Model (Pryce, Meen)

- Chen, Y., Fingleton, B., Pryce, G., Chen, A. & Djordjević, S. (2013) Implications of Rising Flood Risk for Residential Real Estate Prices & the Location of Employment: A GMM Spatial Model with Agglomeration & Endogenous House Price Effects, *Journal of Property Research*, Journal of Property Research, 30 (4). pp. 298-323.[1]
- Fingleton, B. (2008), "Housing supply, housing demand and affordability", *Urban Studies*, 45(8): 1545-1563.
- Meen, G. and J. Li (2014), "Increasing returns and the local spatial distribution of migrant communities: The case of London, 1861-2011", *University of Reading mimeo*.
- Nygaard, C and G. Meen (2013), "The distribution of London residential property prices and the role of spatial lock-in", *Urban Studies*, 50(12): 2535-2552.
- Osland, L. & Pryce, G. (2012) Polycentric Access to Employment with Non-Monotonic Distance Effects, Housing Studies, 27(8) 1182–1208.

Cities in the Age of Analytics (Geers)

- NICTA (National ICT Australia) is Australia's Information Communications Technology (ICT) Research Centre of Excellence and the nation's largest organisation dedicated to ICT research. NICTA's primary goal is to pursue high-impact research excellence and, through application of this research, to create national benefit and wealth for Australia.
- NICTA's research addresses the technology challenges facing industry, the community and the whole nation. They seek to improve the international competitiveness of both academic ICT research and industry innovation by tightly linking the two to achieve greater economic and social impact.
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