

Resume

Alison Heppenstall
Geography, University of Leeds

Employment History:

2005 -: EPSRC funded Research Fellow, School of Geography, University of Leeds.

2005 -: Human Geography tutor, School of Geography, University of Leeds.

Oct 2004 - Apr 2005: Teaching Fellow, School of Geography, University of Leeds.

Sept 2003 - Dec 2003: Visiting Researcher GeoVista Center, Department of Geography, Penn State University (US).

2001 - 2004: Research Student, School of Geography, University of Leeds

Qualifications

2005 -: BSc(Hons) Computing and Mathematical Sciences. OU, 2005 -: PGCLTHE, School of Education, University of Leeds, 2001 - 2004: PhD, School of Geography, University of Leeds. ESRC CASE award:GMap, 2000 - 2001: MSc GIS, School of Geography, University of Leeds, 1995 - 1998: BA (Hons) Archaeology, Department of Archaeology, Grey College, University of Durham.

Selected Papers

Abrahart, R.J. and Heppenstall, A.J. Teaching and learning with StarLogo and NetLogo. Journal of Geography in Higher Education. In review.

Abrahart, R.J., Heppenstall, A.J. and See, L.M., Timing Error Correction Procedures Applied to Neural Network Rainfall-Runoff Modelling. Hydrological Sciences Journal. In review.

Abrahart, R.J., See, L.M. and Heppenstall, A.J., Neuroevolution Applied to River Level Forecasting Under Winter Flood and Drought Conditions. Journal of Intelligent Systems. Accepted.

Heppenstall, A.J., Evans, A.J. and Birkin, M.H., (2007) Genetic Algorithm Optimisation of a Multi-Agent System for Simulating a Retail Market. Environment and Planning B. v.34.

Heppenstall, A.J., Evans, A.J. and Birkin, M.H., (2006) Application of Multi-Agent Systems to Modelling a Dynamic, Locally Interacting Retail Market. JASSS. vol 9(3).

Dawson, C.W., See, L.M., Abrahart, R.J. and Heppenstall, A.J., (2006) Symbiotic adaptive neuro-evolution applied to rainfall-runoff modelling in northern England. Neural Networks. 19(2): 236 - 247

Heppenstall, A.J., McFarland, O.E. and Evans, A.E. (2005), The Application of Multi-Agent Systems and Social Network Theory to Petrol Pricing on UK Motorways. Lecture Notes in Artificial Intelligence 3690, pp. 551-554.

Heppenstall, A.J., Evans, A.J. and Birkin, M.H. (2005), A Hybrid Multi-Agent/Spatial Interaction Model System for Petrol Price Setting. Transactions in GIS 9(1): 35 - 51.

Book Chapters

Heppenstall, A.J., See, L.M. and Abrahart, R.J. (2006) Advances in Neural Network Hydrological Modelling: An Adaptive Co-evolutionary Approach In: Abrahart, R.J., See, L.M. and Solomatine, D.P. (Eds.) (2006) Hydroinformatics in practice: computational intelligence and technological developments in water applications. Springer DE: Water Science and Technology Library.

Heppenstall, A.J., Evans, A.J., Birkin, M.H. and O'Sullivan, D. (2005), The Use of Hybrid Agent-Based Systems to Model Petrol Markets. Chapter 17, pp154 - 162. In Agent-Based Simulation: From Modelling Methodologies to Real-World Applications. Springer Series on Agent-Based Social Systems, Vol. 1. Edited by Terano, T., Kita, H. Kaneda, Arai, K. and Deguchi, H.