ICA 9th Workshop on Generalisation and Multiple Representation

25 June 2006
Portland, USA

William Mackaness, University of Edinburgh
Anne Ruas, COGIT Laboratory, IGN-France

ICA Commission

- elected for 4 years, during ICA gen. assembly
  - Mackaness & Ruas from August 2003
  - Weibel & Richardson (1999-2003)
  - Weibel (1995-1999)

- Foster research and practical experiences in multi-scale issues and automated generalisation and to form a network for researchers and practitioners
  - Academic, Mapping Agency, GIS producers

Workshop

- **Workshop**
  - **20-40 people**
  - **On paper submission, on-line paper, no copyright**
  - **Prior a GIS conference (prior de ICC every 2 years)**
  - **Including discussion sessions & restaurant**

- **Annual**
  - **20&21th August 04, Leicester, Prior SDH**
  - **7&8th July 05, A Corona, Prior ICC**
  - **22th June 06, Portland, Prior Autocarto**
  - **3&4th of August 07, Moscow, Prior ICC**

Tutorial

- Every 2 years,
  - To keep open the community
  - To help PhD students, beginners, practitioners

- 2005 (A Coruña)
  - Liqiu Meng : Operations and Algorithms
  - Rob Weibel : Modelling the generalisation process
  - W. Mackaness : Spatial Analysis
  - Mustiere/Ruas : LoD & MRDB
  - Ruas : Agent and constraints based approaches
  - Sester : Requirement for new technology and services

- **2007 (Moscow) 5 August 2007**
  - **Same basis but More place for WGS**

Book

- **“Automated Mapping : Models and Applications for the generalisation of geographical information”**
  - Elsevier, ICA Collection
- ‘Old’ project
  - Started in 99 Ottawa, Sleeped for a while, Restarted in 2003
  - Editors : W. Mackaness, Tiina Sarjakoski, A. Ruas
- Strong review process :
  - B. Buttenfield, EM Joao, JP Donnay, L. Letho, P. v Oosterom, B. Nakos, N. Regnauld, D. Richardson, J. Snell, M. Sester, J. Stoter, S. Timpf, C. Vangenot,
- Printed end 2006

Part 1 : Models

- *Understanding Geographic Space*
  - William Mackaness
- *Conceptual Models of Generalisation and Multiple Representation*
  - Tiina Sarjakoski
- *A Synoptic View of Generalisation Operators*
  - Nicolas Regnauld & Robert McMaster
- *Modelling the Overall Process of Generalisation*
  - Lars Harrie & Robert Weibel
- *The role of evaluation in generalisation process*
  - William Mackaness & Anne Ruas
- *Database Requirements for Generalisation and Multiple Representation*
  - Sébastien Mustière & John van Smaalen

Part 2 : Applications

- *The Role of Generalisation in LBS GiMoDig project*
  - Tapani Sarjakoski & L. Tiina Sarjakoski — Finland
- *Experiments to build an open generalisation system*
  - Alistair Edwardes & Dirk Burghart & Moritz Neun — Zurich
- *Data warehouse architectures to support delivery of web based on demand mapping*
  - Eveline Bernier & Yvan Bédard — Laval
- *Relevance of Generalization to Wayfinding Strategies*
  - Monika Sester & Birgit Elias — Hannover
- *3D Building Generalisation*
  - Liqiu Meng & Andrea Forberg — Munich
- *Characterising space via pattern recognition techniques: Identifying patterns in road net..*
  - Frauke Heinzle, Karl-Heinrich Anders — Hannover
- *Generalisation of Geographical Network*
  - Robert Thomson & Ruppert Brooks — Canada
- *Development of A Prototype of Generalisation based on the MAS Paradigm*
  - Anne Ruas & Cécile Duchêne — COGIT
- *Managing Map Updates with Generalisation – an IGN- France experience*
  - François Lecordix & Cecile Lemarié — IGN-F
- *Automated generalisation in map production –a KMS Experience*
  - Peter West Nielsen & Marlene Meyer & Marianne Bengtson — KMS- Dnk

Web site

- **http://ica.ign.fr**
  - Workshop
  - including a digital library
    - Send reference to julien.gaffuri@ign.fr

Today

- 21 people + 2 observers
  - CH, CZ, FR, NL, PL, SP, TR, UK,USA
- 13 presentations
  - Session 1 : Semantic Modeling in Map Gen
  - Session 2 : WGS
  - *Discussion on WGS : harmonization and architecture*
  - Session 3 : Map Gen Methodology
  - Session 4 : Map Gen in Production environment
  - *Discussion on needs for production*
- 10 minutes presentation – 10 minutes questions / discussion

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