

ICA Commission on Map Generalization

Workshop on Progress in Automated Map Generalization

2-4 August 2001
Tibet Hotel, Beijing

Thursday, 2 August 2001

0900 - 0930 **Opening Session**

0930 - 1030 **S1: Production Issues I**

0930 - 0945 *Miguel Garriga and Geoff Baldwin, AAA (USA):*

Generalization of Multiple Scale Maps from a Single Master Database

0945 - 1000 *Blanca Baella and Maria Pla, Institut Cartogràfic de Catalunya:*

Map Names Generalization at the Institut Cartografic de Catalunya

1000 - 1030 Discussion period

1030 - 1100 **Coffee/tea break**

1100 - 1230 **S2: Production Issues II**

1100 - 1115 *Dan Lee, ESRI Inc. (USA):*

Moving towards New Technology for Generalization

1115 - 1130 *Marianne Bengtson, National Survey and Cadastre of Denmark (DK):*

Design and Implementing of Automatical Generalisation in a New
Production Environment for Datasets in Scale 1:50.000 (- and
1:100.000)

1130 - 1200 *Kelvin Haire, Laser-Scan Ltd. (UK):*

Active Object and Agent Based Approaches to Automated
Generalisation (incl. demo)

1200 - 1230 Discussion period

1230 - 1400 **Lunch break**

1400 - 1530 **S3: Optimization Techniques**

1400 - 1415 *Monika Sester, University of Hannover (D):*

Kohonen Feature Nets for Typification

1415 - 1430 *Mark Ware, Chris Jones and Nathan Thomas, Glamorgan/Cardiff (UK):*

An Simulated Annealing Algorithm For Cartographic Map
Generalization with Multiple Operators

1430 - 1445 *Lars Harrie, Lund University (S)*

Weight Setting and Quality Assessment in Simultaneous Graphic
Generalisation

1445 - 1500 *Mats Bader and Mathieu Barrault, University of Zurich (CH):*

Cartographic Displacement in Generalization: Introducing Elastic Beams

1500 - 1530 Discussion period

1530 - 1600 **Coffee/tea break**

1600 - 1700 **Small Groups: Lessons learned on the Day 1**

1700 - 1745 **Plenary: Conclusions of Small Groups & Wrapping Up Day 1**

Friday, 3 August 2001

0900 - 1030 **S4: Line Generalization**

- 0900 - 0915 *Byron Nakos*, National Tech University of Athens (GR):
On the Assessment of Manual Line Simplification Based on Sliver Polygon Shape Analysis
- 0915 - 0930 *Andriani Skopeliti and Lysandros Tsoulos*, National Tech University of Athens (GR):
A Methodology for the Assessment of Generalization Quality
- 0930 - 0945 *Peter van der Poorten and Chris Jones*, Cardiff University (UK):
Feature Based Line Generalization Using Delaunay Triangulation
- 0945 - 1000 *Sébastien Mustière and Cécile Duchêne*, IGN France (F):
Comparison of Different Approaches to Combine Road Generalization Algorithms: GALBE, AGENT and CartoLearn
- 1000 - 1030 Discussion period

1030 - 1100 **Coffee/tea break**

1100 - 1230 **S5: Area Generalization**

- 1100 - 1115 *Martin Galanda*, University of Zurich (CH):
Optimization Techniques for Polygon Generalization
- 1115 - 1130 *Beat Peter*, University of Zurich (CH):
Measures for the Generalization of Polygonal Maps with Categorical Data
- 1130 - 1145 *Lilian Pun*, Hong Kong Polytechnical University (HK):
Dynamic Representation of Vegetation Succession – A Preliminary Thought
- 1145 – 1200 *Tao Cheng*, University of Leicester (UK):
Quality Assessment of Model-Oriented Generalization
- 1200 – 1230 Discussion period

1230 - 1400 **Lunch break**

1400 - 1530 **Measures and Overviews**

- 1400 - 1415 *Zhilin Li*, Hong Kong Polytechnical University (HK):
Correlation of Generalisation Effects with Thematic Attributes of Cartographic Objects
- 1415 - 1430 *Anne Ruas*, IGN France (F):
Overview of Generalization Research Projects at IGN France
- 1430 – 1445 *Qing Sheng Guo*, Wuhan University (China)
A Progressive Line Simplification Algorithm
- 1445 - 1500 Discussion period

1500 - 1530 **Coffee/tea break**

1530 - 1700 **Small Groups: Lessons learned on the Day 2**

1700 - 1745 **Plenary: Conclusions of Small Groups & Wrapping Up Day 2**

Saturday, 4 August 2001

- 0900 - 1030 **S6: Multiscale Databases and Realtime Generalization**
- 0900 - 0915 *Mats Dunkars*, SWECO Position (S):
Automatic Generation of a View to a Geographical Database
- 0915 - 0930 *Sheng Zhou and Chris Jones*, Cardiff University (UK):
Multi-Scale Spatial Database and Map Generalisation
- 0930 - 0945 *Marc van Kreveld*, Utrecht University (NL):
Smooth Generalization for Continuous Zooming
- 0945 - 1000 *Tiina Kilpeläinen and Lassi Letho*, Finnish Geodetic Institute (SF):
Challenges of Information Society for Map Generalization
- 1000 - 1030 Discussion period
- 1030 - 1100 **Coffee/tea break**
- 1100 - 1230 **Small Groups: Technical Issues**
- 1230 - 1400 **Lunch break**
- 1400 - 1500 **Plenary: Reports of Small Groups**
- 1500 - 1530 **Coffee/tea break**
- 1530 - 1730 **Plenary: Visions for Generalization**