

**ICA'99 Workshop, August 12-14, 1999  
Progress and Developments in Automated Map Generalization**

**Government Conference Centre (the Old Train Station)  
2 Rideau Street, Ottawa, Ontario, Canada**

	Room A	Room B
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12.Aug	<b>Opening Remarks and Introduction</b>
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8:45-9:20 Robert Weibel & Dianne Richardson

12.Aug	<b>Session 1 (4 papers)</b>	<b>Session 2 (4 papers)</b>
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	<b>Applications in Generalization</b>	<b>Strategies for Homogeneity - Modelling Design in Cartographic Systems</b>
9:20-10:00	Map Generalization to Obtain the Topographic Map of Catalonia 1:10:000 Blanca Baella and Maria Plà [Paper #1]	Map Space Partitioning for Agent Process Organisation Frank Brazile and Alistair Edwardes [Paper #23]
10:00 - 10:40	From 1:10,000 to 1:50,000 at 300 km <sup>2</sup> /day Peter Højholt [Paper #6]	Spatial Concept Lattices: An Integration Method in Model Generalization Margarita Kokla and Marinos Kavouras [Paper #29]
10:40-11:20	<b>Break</b>	<b>Break</b>
11:20-12:00	Practical Solutions for Specific Generalization Tasks Dan Lee [Paper #20]	The Role of the Meso Level for Urban Generalisation Anne Ruas [Paper #9]
12:00-12:40	A Prototype System for Propagating Updates Between Cartographic Data Sets Lars Harrie and Anna-Karin Hellström [Paper #16]	Strategies in Building Generalisation: Modelling the Sequence, Constraining the Choice Nicolas Regnaud, Alistair Edwardes and Mathieu Barrault [Paper #11]
	Session Chair: Jan Terje Bjørke	Session Chair: William Mackaness
12:40-2:20	<b>Lunch</b>	<b>Demo set up time</b>
2:20-5:00ish	<b>Breakout groups; discussion; group presentations</b>	

13.Aug	Session 3 (5 papers)	Session 4 (5 papers)
8:30-9:00	<b>Demo set up time</b>	
	<b>Lines, Lines and More Lines: the Critical Role of Research into Lines in Cartography</b>	<b>Cognitive Processes and Spatial Modelling</b>
9:00-9:40	Aspects of (Line) Generalisation Mahes Visvalingam [Paper #12]	Map Generalization: A Fuzzy Logic Approach Jan Terje Bjørke [Paper #5]
9:40-10:20	Comparison of Manual Versus Digital Line Simplification Byron Nakos [Paper #7]	A Framework for Automated Spatial Analysis Based on Spatialization Principles Annabelle Boffet [Paper #10]
10:20-11:00	<b>Break</b>	<b>Break</b>
11:00-11:40	Customisable Line Generalisation Using Delaunay Triangulation Peter van der Poorten and Christopher Jones [Paper #19]	Revisiting Töpfer: Implications of the Radical Law for Scaleable Spatialization André Skupin [Paper #15]
11:40-12:20	Map Generalisation by Skeleton Retraction Christopher Gold, David Thibault and Zhonghai Liu [Paper #21]	Requirements of Model Generalization for GIS and Implementation on <i>SupportGIS</i> Dietrich Schürer [Paper #3]
12:20-1:00	Algorithms for Objective Representation of DTM at its Natural Scales Zhilin Li and Chengming Li [Paper #2]	Object Oriented Modelling of Geographical Information at Multiple Scales Mats Dunkars and Anna Bergman [Paper #18]
	Session Chair: Christopher Jones	Session Chair: Barbara Buttenfield
1:00-2:30	<b>Lunch</b>	<b>Lunch</b>
2:30-4:00ish	<b>Breakout groups; discussion; group presentations</b>	
4:00-5:00ish	<b>Demo's</b>	

14.Aug	Session 5 (5 papers)	Session 6 (5 papers)
	<b>Issues in the Visualisation of Geographical Information over the Web</b>	<b>Geometry and Constraints</b>
9:00-9:40	Visualising Generalization Solutions on the World Wide Web Geoffrey Dutton [Paper #26]	Twelve Computational Geometry Problems from Cartographic Generalisation Marc van Kreveld [Paper #25]
9:40-10:20	Progressive transmission of Vector Data over the Internet: A Cartographic Solution Barbara Buttenfield [Paper #14]	The Deformation and Displacement of Areal Objects During Automated Map Generalisation: An Approach to Conflict Resolution Through Maximising Nearest Neighbour Distances Mark Lonergan and Christopher Jones [Paper #8]
10:20-11:00	<b>Break</b>	<b>Break</b>
11:00-11:40	Active Object Techniques fo Production of Multiple Maps and Geodata Products from a Spatial Database P. Hardy [Paper #4]	Least Squares Adjustment for Generalization of Large Data Sets Tapani Sarjakoski and Tiina Kilpelainen [Paper #22]
11:40-12:20	The Application of Dynamic Generalisation to Virtual Map Design W. Mackaness and Elizabeth Glover [Paper #28]	Solution of Cartographic Conflicts by Context Dependent Optimisation Joachim Bobrich [Paper #17]
12:20-1:00	Pessimistic Generalisation: Limits and Lessons for Semantic Interoperability F. Harvey [Paper #27]	Modelling Knowledge for Automated Generalisation of Categorical Maps - A Constraint Based Approach Alistair Edwards and William Mackaness [Paper #13]
	Session Chair: Mahes Visvalingam	Session Chair: Martien Molenaar
1:00-2:30	<b>Lunch</b>	<b>Lunch</b>
2:30-5:00	<b>Workshop Summary</b>	

## Assignment of Discussants to Papers

1) Barbara P. Buttenfield <babs@colorado.edu>  
Paper #9 (Ruas)  
Paper #23 (Brazile/Edwardes)  
Paper #29 (Kokla/Kavouras)

6) Martien Molenaar <molenaar@itc.nl>  
Paper #2 (Li/Li)  
Paper #3 (Schürer)

2) Geoffrey H. Dutton <dutton@spatial-effects.com>  
Paper #10 (Boffet)  
Paper #12 (Visvalingam)  
Paper #15 (Skupin)

7) Dianne Richardson <Dianne.Richardson@CCRS.NRCan.gc.ca>  
Paper #1 (Baella/Pla)  
Paper #6 (Højholt)  
Paper #26 (Dutton)

3) Christopher B. Jones <cbjones@glam.ac.uk>  
Paper #4 (Hardy)  
Paper #11 (Regnauld et al.)  
Paper #17 (Bobrich)

8) Anne Ruas <Anne.Ruas@ign.fr>  
Paper #8 (Lonergan/Jones)  
Paper #16 (Harrie)  
Paper #22 (Sarjakoski/Kilpeläinen)

4) William A Mackaness <wam@geo.ed.ac.uk>  
Paper #5 (Bjørke)  
Paper #21 (Gold et al.)  
Paper #27 (Harvey)

9) Mahes Visvalingam <M.Visvalingam@dcs.hull.ac.uk>  
Paper #14 (Buttenfield)  
Paper #7 (Nakos)  
Paper #19 (van der Poorten/Jones)

5) Robert B. McMaster <mcmaster@atlas.socsci.umn.edu>  
Paper #20 (Lee)  
Paper #24 (Peter/Weibel) (Note: not included in the program)  
Paper #28 (Mackaness/Glover)

10) Robert Weibel <weibel@geo.unizh.ch>  
Paper #13 (Edwardes/Mackaness)  
Paper #8 (Dunkars/Bergman)  
Paper #25 (van Kreveld)