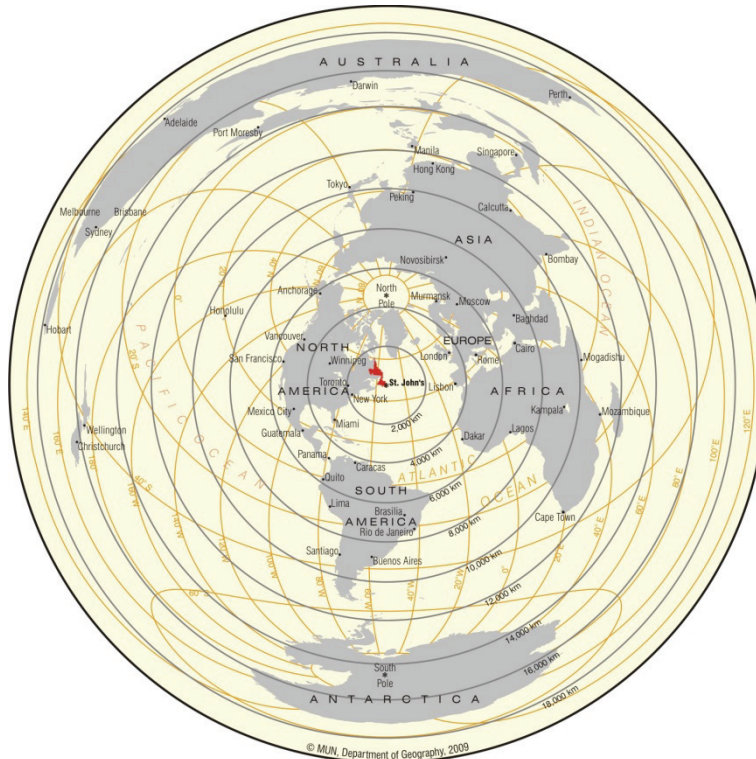


# 6<sup>th</sup> International Symposium on Spatial Data Quality

-  
From Process to Decisions



St. John's, Canada - 5-8 July 2009





# Detailed programme of the symposium

## Sunday 5 July

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- 16:00-17:30      Registration  
*Location:* Lobby of The Sheraton Hotel
- 18:30-20:30      **Ice-breaker reception & Conference registration**  
*Location:* *The Rooms Café*, The Rooms provincial museum, 4<sup>th</sup> floor (more information in the “General Information” section of this document).

## Monday 6 July

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- 07:30-08:45      Registration
- 08:45-09:10      Welcome speech: Rodolphe Devillers, Conference Chair  
Welcome speech: Alfred Stein, ISPRS WG II/4
- 09:10-09:30      Welcome speech: Wenzhong Shi, ISPRS Technical Commission II President  
*Talk:* “The Past Ten Years of ISSDQ”
- 09:30-10:30      **Opening keynote speaker: Nicholas Chrisman, Scientific Director, GEOIDE Network**  
*Talk:* “A Difference That Makes a Difference”
- 10:30-11:00      Coffee break
- 11:00-12:30      **Session I - Theory**  
*Chair:* Wenzhong Shi

*Andrew U. Frank*

Scale is Introduced in Spatial Datasets by Observation Processes

*Tarek Sboui, Mehrdad Salehi and Yvan Bédard*

Towards a Quantitative Evaluation of Geospatial Metadata Quality in the Context of Semantic Interoperability

*Gwen Wilke and Andrew U. Frank*

Projective Spray Can Geometry – An Axiomatic Approach to Error Modelling for Vector Based Geographic Information Systems

12:30-14:00 Lunch  
14:00-15:30 **Session II – Imagery**  
Chair: Peter Fisher

*Alfred Stein, Mamushet Zewuge Yifru and Petra Budde*  
A Stereological Estimator for the Area of Flooded Land from Remote Sensing Images

*Luisa M.S. Gonçalves, Cidália C. Fonte, Eduardo N.B.S. Júlio and Mario Caetano*  
Evaluation of Remote Sensing Image Classifiers with Uncertainty Measures

*Cláudio Carneiro, Mina Karzand, Yue M. Lu, François Golay and Martin Vetterli*  
Assessing Digital Surface Models by Verifying Shadows: A Sensor Network Approach

15:30-16:00 Coffee break

16:00-17:30 **Panel discussion**  
Chair: Nicholas Chrisman

## Tuesday 7 July

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09:00-10:00 **Keynote speaker: Harlan Onsrud, U. of Maine, USA**  
*Paper: "Liability for Spatial Data Quality"*

10:00-10:30 Coffee break

10:30-12:00 **Session III – Legal aspects**  
Chair: Marc Gervais

Gerhard Navratil and Rainer Feucht  
*An Example for a Comprehensive Quality Description - The Area in the Austrian Cadastre*

Teresa Scassa and Lisa M. Campbell  
*Data Protection, Privacy and Spatial Data*

Elizabeth Judge and Teresa Scassa  
*Intellectual property and the Licensing of Government Data*

12:00-14:00 Lunch  
**Keynote speaker: Ed Parsons, Google UK**  
*Paper: "When Good Enough, is Good Enough: Data Quality Requirements of the Geoweb"*

- 14:00-15:15 Free time
- 15:15-22:00 **Social tour and conference supper**  
*Activities:* Bus tour with a stop at Cape Spear, boat tour of the Witless Bay Ecological Reserve and conference supper in Bay Bulls. The bus will leave from the hotel at 15:15 and leave Bay Bulls at 22:00 to return to the hotel.

## Wednesday 8 July

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- 09:00-10:00 **Keynote speakers: Peter Fisher, Lex Comber and Richard Wadsworth, UK**  
*Paper:* "What is in a name? Semantics, Uncertainty Standards and Data Quality"

- 10:00-10:30 Coffee break

- 10:30-12:00 **Session IV – Applications I**  
*Chair:* Alvin Simms

Martin Kada, Michael Peter and Yevgeniya Filippovska  
*3D Building Generalization under Ground Plan Preserving Quality Constraints*

Tarmo K. Remmel, Connie Ko and Rick L. Bello  
*Characterizing and Comparing GIS Polygon Shape Complexity by Iterative Shrinking Spectra*

Farhad Hosseinali, Abbas Alimohammadi and Ali A. Alesheikh  
*Assessing Geometric Uncertainty in GIS Analysis Using Artificial Neural Networks*

- 12:00-13:30 Lunch

- 13:30-14:30 **Poster session**

Accuracy Measurement for Area Features in Land Use Inventory  
*Haixia Mao, Wenzhong Shi and Yan Tian*

A Framework for the Identification of Integrity Constraints in Spatial Datacubes  
*Mehrdad Salehi, Yvan Bédard, Mir Abolfazl Mostafavi and Jean Brodeur*

A New Method for Integrating Data of Variable Quality into 3-Dimensional Subsurface Models  
*Kelsey MacCormack and Carolyn H. Eyles*

Analyzing the Effect of Different Aggregation Approaches on Remotely Sensed Data  
*Rahul Raj, Nicholas A.S. Hamm and Yogesh Kant*

Analyzing the Effect of the Modifiable Areal Unit Problem in Remote Sensing

*Nicholas A.S. Hamm, Alfred Stein and Valentyn Tolpekin*

Conception of a model to evaluate geometrical imprecisions from under-qualified vector data for decision making

*Jean-François Girres and Anne Ruas*

Granular Computing Model for Solving Uncertain Classification Problems of Seismic Vulnerability

*Hadis Samadi Alinia and Mahmoud Reza Delavar*

Harmful Information: Negligence Liability for Incorrect Information

*Jennifer A. Chandler*

Qualitative Topological Relationships for Objects with Possibly Vague Shapes: Implications on the Specification of Topological Integrity Constraints

*Lotfi Bejaoui, Yvan Bédard, François Pinet and Michel Schneider*

Spatial Variability of Errors in Urban Expansion Model: Implications for Error Propagation

*Amin Tayyebi, Mahmoud Reza Delavar, Bryan C. Pijanowski and Mohammad Javad Yazdanpanah*

The Canadian Geospatial Data Infrastructure and Spatial Data Quality

*Ryan Ogston and Steve McCourt*

Use of an Airborne Imaging Spectrometer as a Transfer Standard for Atmospheric Correction of SPOT-HRG Data

*Debajyoti Bhowmick, Nicholas A.S. Hamm and Edward J. Milton*

14:30-15:00 Coffee break

15:00-16:30 **Session V – Applications II**

*Chair: Alfred Stein*

Martin Knotters, Henk Vroon, Arie van Kekem and Tom Hoogland

*Deciding on the Detail of Soil Survey in Estimating Crop Yield Reduction Due to Groundwater Withdrawal*

Hamid Kiavarz Moghaddam and Farhad Samadzadegan

*Neural Network Based Cellular Automata Calibration Model for the Simulation of a Complex Metropolis*

Amin Tayyebi, Mahmoud Reza Delavar, Bryan C. Pijanowski and Mohammad Javad Yazdanpanah

*Accuracy Assessment in an Urban Expansion Model*

16:30-17:00 **Closing session**

Closing comments from the conference chair.

Presentation of the Accuracy 2010 conference (Leicester, UK).

Presentation of the ISSDQ 2011 conference (Turkey).

## **Instructions to authors**

### **Oral presentations**

The keynote addresses and the oral presentations will be in "Salon C-D". Oral presentations are 30 minutes long (25 minutes for presentations and 5 minutes for questions). A computer equipped with MS-PowerPoint 2007 and a LCD projector will be available. Presentations should be uploaded on the conference computer using a USB key at least 20 minutes before the start of the session, or any time before. Please contact the conference chair (issdq@mun.ca) at least one week in advance if you need any other equipment (overhead projector, etc.) or specific type of software.

### **Poster presentations**

Posters will be presented in a specific session in "Salon B" on Wednesday 8 July from 13:30 to 14:30 (and will continue during the 30 minutes coffee break that follows this session). You are encouraged to install your poster earlier during the conference to allow people to look at it before. Posters installation can start in the morning on Monday 6 July. You will then have to take down the posters at the end of the poster session.

Each poster that has been accepted will have a maximum space of 4x4 feet available. We recommend using 3x4 feet in landscape format.

Poster boards will allow fixing posters using velcro. We will provide velcro on site that you can stick to the back of your poster.

## **General information**

### **Ice-breaker**

The ice-breaker will start at 18:30 on Sunday 5 July, during the evening preceding the conference. The ice-breaker will take place at *The Rooms Café*, located on the 4<sup>th</sup> floor of *The Rooms* provincial museum, 9 Bonaventure Avenue. The map provided with the registration package identifies the location, which is about a 15-20 minute walk from the hotel when following Military Road. It will include a performance of Newfoundland traditional music by two well-known Newfoundland musicians, Christina Smith and Jean Hewson.

### **Meals**

Breakfast and suppers (outside of the conference supper on Tuesday) are at the cost of the conference attendees. Suggested restaurants are listed on the back of the map provided. Lunches are included in the conference registration and will be served in "Salon B". The conference supper (Tuesday) is also included in the registration and will be done as part of the social tour.

### **Internet access**

Free Internet access will be available in the guest rooms (wired) for people staying at the hotel and in the meeting rooms (wireless) for all conference attendees.

### **Social tour and conference supper**

Social activities and the conference supper will take place on Tuesday afternoon and evening. Registration for the social tour is included in the conference registration. A bus will leave at 15:15 from the front of the hotel to go to Bay Bulls, a community located about 30 minutes drive south of St. John's. The bus tour will include a 30 minutes stop at Cape Spear, the easternmost point of North America. Then, the bus will go through Petty Harbour, a small fishing community, to reach Bay Bulls. Guests will have a 1h30 boat tour going around the islands of the Witless Bay Ecological Reserve which hosts a colony of seabirds (puffins) and around which it may be possible to see whales. The boat tour will be followed by the conference supper at around 19:30 in a restaurant located close to the deck. Guests should have specified in advance their menu selections to the conference organisers. The bus will leave to return to St. John's at 22:00 and should arrive at the hotel around 22:30.

### **Book exhibit**

A small display of books published on the theme of Spatial Data Quality (or related topics) will be available for consultation in "Salon B". These books are for consultation only; please place them back on the table after consultation.





## Committees

### Scientific programme committee

- Francisco Javier Ariza López (Spain)
- Yvan Bédard (Canada)
- Nicholas Chrisman (Canada)
- David Coleman (Canada)
- Alexis Comber (UK)
- Sytze de Bruin (The Netherlands)
- Mahmoud Delavar (Iran)
- Hande Demirel (Turkey)
- Rodolphe Devillers (Canada)
- Matt Duckham (Australia)
- Peter Fisher (UK)
- Andrew Frank (Austria)
- Marc Gervais (Canada)
- Michael Goodchild (USA)
- Gerard Heuvelink (The Netherlands)
- Robert Jeansoulin (France)
- Werner Kuhn (Germany)
- Tarmo Remmel (Canada)
- Sylvie Servigne (France)
- John Shi (Hong Kong)
- Alvin Simms (Canada)
- Alfred Stein (The Netherlands)
- Kirsi Virrantaus (Finland)

### Organising committee

- Rodolphe Devillers (*Chair*)
- Sherry Power
- Mahmoud Delavar
- Randy Gillespie
- Helen Goodchild
- Alvin Simms
- Randal Greene
- Krista Jones

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**Memorial University of Newfoundland (MUN)**



**GeoConnections/GéoConnexions**



**Compusult**



**Canadian Institute of Geomatics (CIG)**



**International Society for Photogrammetry and Remote Sensing (ISPRS)**