

Program

The program for this year's doctoral colloquium is now available.

Contents and Provisional Agenda

(Note: all presentation times are subject to change) 8.30am Opening Announcements

Clare Davies, Ordnance Survey, UK Session I: Environmental Spatial Cognition

1. A semantic and language-based representation of an environmental scene

Jean-Marie Le Yaouanc, IRENav, Brest, France

8.40am

2. Learning and Navigating Built Enviroments: Individuals' Travel Patterns and Spatial Knowledge Measured in the Field with a Mobile Geographic Information System

Drew Dara-Abrams, UCSB, USA

8.50

3. An Affordance-Based Account of Environmental Perception and Interaction

Jens Ortmann, Muenster, Germany

9.00

4. The neural encoding of navigationally relevant information

Joost Wegman, Radboud, Nijmegen, Netherlands

9.10

5. Primordial Conceptual Elements of Space: Towards a Familiarity- and Scale-Dependent Structure

Dido Tsigaridi, Harvard, USA

9.20

6. The effect of spatial information on the construction of cognitive maps in humans and animals

Osnat Yaski, Tel Aviv, Israel

9.30 Session II: Knowledge Representation

7. Towards an Integrated Model of Human Activity

Karl Grossner, UCSB, USA

9.40am

8. Geographic Information Services composition based on ontologies: modeling an application to the Food Bank's logistics operation

Mariana Giannotti, INSA-Lyon, France

9.50

9. Spatial, uncertain and imprecise reasoning for the analysis and representation of earth observation images

Maria Carolina Vanegas Orozco, Paris Tech, France

10.00

10. Towards a socio-economical evaluation framework of Volunteered Geographic Information (VGI)

Anisur Rahman Gazi, Laval (Quebec), Canada

10.10

11. Is it possible to 'Fingerprint' Geoscientific Research and Discovery?

Brandon Whitehead, Auckland, New Zealand

10.20

12. Towards Process-Based Ontology for Representing Dynamic Geospatial Phenomena

Anusuriya Devaraju, Muenster, Germany

10.30

13. A Conceptual Space Algebra and Markup Language for the Geospatial Semantic Web

Benjamin Adams, UCSB, USA

10.40

10.50-11.10am Break Session III: Designing Maps and Displays

14. User Preferences for Map-Based Decision Making Under Time Pressure

Jan Wilkening, Zurich, Switzerland

11.10am

15. Evaluating the importance of contextual information in visual displays of movement patterns

Anna-Katharina Lautenschuetz, Zurich, Switzerland

11.20

16. Cognitively Motivated Schematization Principles in 3D Virtual Cities

Denise Peters, Bremen, Germany

11.30

17. Influence of map legend design on cognitive processes of map reading

Izabela Michna, Warsaw, Poland

11.40

18. Stuck in the Stacks: Using Schematic Maps to Improve Wayfinding and Acquisition of Environmental Knowledge in Complex Buildings

Rui Li, Penn State, USA

11.50 Session IV: GIS Data Models

19. Towards a Hybrid Quantitative-Qualitative GIS

Paolo Fogliaroni , Bremen, Germany

12.00pm

20. Epidemic control strategies for mixed migratory and stationary susceptible populations

Jonathan Arundel, Melbourne, Australia

12.10

21. Spatio-Temporal Outlier Detection in Traffic Data

Berk Anbaroglu, UCL, UK

12.20

22. Methodology for Data-Modeling in GIS

Chams Eddine Zaki, Nantes, France

12.30

23. A Model of Positional Uncertainty for the Vector Data Model Based on Axiomatic Geometry

Gwen Wilke, TU Vienna, Austria

12.40

24. Ad hoc data integration for mobile GIS applications

Ramya Venkateswaran, Zurich, Switzerland

12.50

1pm Close and lunch