

Preface

WORKSHOP ON SPATIAL DATA ON THE WEB 2016

at [GIScience 2016](#); 9th International Conference on Geographic Information Science
Montreal, Canada - September 27-30. 2016.

Workshop Description and Scope

In their first joint collaboration, the Open Geospatial Consortium (OGC) and World Wide Web Consortium (W3C) have established the *Spatial Data on the Web Working Group*. The group aims at investigating and providing guidance for the following challenges (1) how can spatial information best be integrated with other data on the Web; (2) how can machines and people discover that different facts in different datasets relate to the same place or feature, especially when this place is expressed or represented in different ways and at different levels of granularity; (3) and what are existing methods and tools to publish, discover, reuse, and meaningfully integrate spatial data. The group is presently surveying the landscape of existing theories, methods, tools, and standards and is creating a set of best practices for their use.

The GIScience community has a long standing interest and expertise in many of the issues outlined above. In fact, work on geospatial semantics, geographic information retrieval, data integration, and spatial data infrastructures, has been part of the GIScience research agenda for many years. Therefore, this workshop aims at bringing researchers together to (1) discuss typical challenges in publishing spatial data on the Web, (2) identify best practices, (3) point out conceptual and theoretical foundations that need to be strengthened or established, (4) identify common quality issues for existing data and lessons learned, (5) improve and develop existing geo-ontologies for the semantic annotation of spatial data, and (6) discuss interface and services that will further improve data linking, sharing, and retrieval across communities.

Workshop Topics

- Topics of interest include (but are not limited to):
- Semantic Enablement of Spatial Data Infrastructures
- Quality issues in geo-ontologies and Linked Spatiotemporal Data
- Experience reports on scalability, discoverability, and so forth
- Coreference resolution and data linkage
- New perspectives on semantic interoperability
- Publishing, retrieving, and accessing sensor data

- Modeling measurement types
- Ontologies for space and time
- Event conceptualization and representation
- Long term preservation of spatial data
- Provenance and the publication of scientific workflows
- Trust and information credibility frameworks
- Coverages as Linked Data
- Geo-Data in JSON-LD
- GeoSPARQL in the wild
- Geo-data specific user interfaces for Linked Data and beyond
- RESTful services and Linked Data services
- Use Cases and Requirements for spatial data on the Web
- Best practice for publishing spatial data on the Web

Organizers

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- [Joshua Lieberman](#), Center for Geographic Analysis, Harvard University, USA
- [Kerry Taylor](#), Australian National University, AU
- [Grant McKenzie](#), University of Maryland, College Park, USA
- [Song Gao](#), University of California, Santa Barbara, USA
- [Simon Cox](#), CSIRO, AU
- [Ed Parsons](#), Google, UK

Programme Committee

- Benjamin Adams - The University of Auckland, NZ
- Payam Barnaghi - University of Surrey, UK
- Oscar Corcho - Universidad Politécnica de Madrid, ES
- Tomi Kauppinen - Aalto University School of Science, FI
- Carsten Keßler - Hunter College, City University of New York, US
- Adila A. Krisnadhi - Wright State University, US & Universitas Indonesia
- Werner Kuhn - University of California, Santa Barbara, US
- Sven Schade - European Commission - DG Joint Research Centre, IT
- Simon Scheider - University Utrecht, Department of Human Geography and Spatial Planning, NL
- Christoph Stasch - 52° North Initiative for Geospatial Open Source Software GmbH, DE

Related Activities

- [Workshop on GIScience in the Big Data Age 2012](#)
- [Spatial Data on the Web Working Group Charter](#)
- [SSN/ Terra Cognita workshop series](#)