BACKGROUND AND SCOPE

The WebMGS workshop series commenced in Como in 2010 followed by subsequent workshops in Vancouver, Canada in 2011 and Xuzhou, China in 2013. This 4th event will take place at the University of Cagliari, Sardinia, Italy. This ISPRS WG IV/5 international workshop provides a dedicated scientific forum for researchers, professionals, government decision-makers and students to exchange and discuss current and state of the art advances in web-based mapping, geospatial information services and applications. The workshop emphasizes a diverse range of topics related to new web-based developments of geospatial theories, technologies and solutions. Researchers will have the opportunity to share knowledge, exchange scientific ideas and results, and develop long term research collaborations.

WORKSHOP TOPICS

The theme is focused on web and cloud based mapping, architectures, services, analytics, ontologies, geovisualisation, collaboration, technologies, semantics and virtual globes, as well as related social and organizational issues. WebMGS 2015 will focus on, but is not limited to, the following topics:

- Cloud and web-based multidimensional GIS
- Neogeography and map mashups; new cartographic theories and interfaces for web mapping
- Design, development and evaluation of web and cloud based architectures, services and applications
- Mobile and location-based search and services; adaptive, context-aware, multidimensional, augmented reality
- Web-based geovisualisation and virtual geospatial environments for dynamics phenomena
- Geospatial web semantics and ontology; intelligent web mapping/GIS services
- Web/cloud based geospatial data discovery, access and utilization
- Open source solutions and open standards/specifications
- Quality assessment of web-based geospatial information sources, processes and applications
- Development and use of virtual globes for geospatial data integration, visualization and analysis
- Web/cloud-based SDSS, PPGIS, Geo-design and collaborative environments
- Security, privacy, copyright, use policy and usability for geospatial web
- Web mapping/GIS for education
- Service chaining and web based geoprocessing workflows
- Web/cloud based geospatial database management

SCHEDULE

Due date for receiving papers: January 15, 2015
Acceptance notification: February 15, 2015
Early registration date: April 1, 2015
Full paper: April 1, 2015

CO-SPONSORS

ISPRS WG II/6: Geovisualization and Virtual Reality
ISPRS WG II/7: Intelligent Spatial Decision Support
ISPRS WG IV/II: Computing Optimization for Spatial Databases and Location Based Services
University of Cagliari
Curtin University
Understanding our world on the web: mapping and services

WebMGS 2015: Call for Papers
1-3 July, 2015, Cagliari, Sardinia, Italy

STEERING COMMITTEE
Bert Veenendaal, Curtin University, Australia (b.veenendaal@curtin.edu.au)
Maria Brovelli, Politecnico di Milano, Italy, (maria.brovelli@polimi.it)
Lixin Wu, China University of Mining & Technology, China (awulixin@263.net)
Songnian Li, Ryerson University, Canada (snli@ryerson.ca)
Suzana Dragićević, Simon Fraser University, Canada (suzanad@sfu.ca)
Giuseppina Vacca, University of Cagliari, Italy, (vaccag@unica.it)

LOCAL ORGANISING COMMITTEE
Guiseppina Vacca, Università di Cagliari, Italy (vaccag@unica.it)
Aldo Banni, Università di Cagliari, Italy (abanni@unica.it)
Monica Deidda, Università di Cagliari, Italy (mdeidda@unica.it)

PROGRAM COMMITTEE
Bert Veenendaal (Convener), Curtin University, Australia
Maria Brovelli, Politecnico di Milano, Italy
Arzu Coltekin, University of Zurich, Switzerland
Suzana Dragićević, Simon Fraser University, Canada
Wei Huang, National Geomatics Center, China
Rui Li, Wuhan University, China
Qing-Quan Li, Shenzhen University, China
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Victoria Rautenbach, University of Pretoria, South Africa
Shih-Lung Shaw, University of Tennessee, USA
Giuseppina Vacca, Università di Cagliari, Italy
Bo Wu, Hong Kong Polytechnic Univ, Hong Kong
Huayi Wu, Wuhan University, China
Lixin Wu, China University of Mining & Technology, China
Chaowei Phil Yang, George Mason University, USA
Yang Yue, Shenzhen University, China

WORKSHOP WEBSITE
convegni.unica.it/webmgs2015/
PROGRAMME

2 July 2015

9.00 - Registration
9.30 - Welcome Addresses
Giuseppina Vacca, University of Cagliari
Bert Veenendaal, Curtin University
10.00 - 10.45
Arthur Berrill - DMTI Spatial Inc.
Technology Challenges in WebMGS
10.45 - 11.30
Simone Giannecchini - GeoSolutions S.A.S.
Trends and directions in web mapping, geoprocessing and services from the perspective of an SME obsessed with Open Source
11.30 Coffee break
12.00 - 13.00 Session 1
Radan Šuba
Parallel creation of vario-scale data structures for large datasets

Geoff West
Search and orchestration of data and processes in a federated environment
13.00 Lunch time

15.00 - 16.00 Session 3

Monica Deidda

A GIS of Sardinia’s coastal defense system (XVI - XVIII century)

Maria Brovelli

A 3D social platform for the Paths of Via Regina

16.00 Coffee break

16.30 - 18.00 Session 3

Bert Veenendaal

Developing a map use model for web mapping and GIS

E. Mohammadi and A.J.S. Hunter

Investigating GeoSPARQL Requirements for Participatory Urban Planning

Premalatha Varadharajulu, Muhammad Azeem Saqiq, Feiyan Yu, David A.

Spatial data supply chains

19.00 Panel session

Research directions in Geo-web/cloud based mapping and services,

Workshop summary

Closing

20.00 Gala Dinner

3 July 2015

9.30 - 10.30

Gaetano Ranieri, University of Cagliari

Discovery of the Giangts of the Monti Prama

11.00

Visit of The Archaeological Museum of Cagliari