5th International Conference on GIS and Remote Sensing

September 19-20, 2019
Rome, Italy
SCIENTIFIC PROGRAM

Thursday, 19th September

08:30-09:00  Registrations
09:00-09:30  Introduction

09:30-09:50  COFFEE BREAK

09:50-11:50  MEETING HALL 01  MEETING HALL 02

11:50-13:10
Talks On: Remote Sensing and GIS
Geological remote sensing
Satellite remote sensing
Global positioning system
Remote sensing in atmospheric modeling

Talks On: GIS Techniques and Technology
Raster-to-vector translation
Projections coordinate systems, and registration
Data representation
Data capture
Resources assessment

13:10-13:15  GROUP PHOTO

13:15-14:00  LUNCH BREAK

14:00-16:00  MEETING HALL 01  MEETING HALL 02

Talks On: Remote Sensing in Urban Environment
Emerging imaging and sensing technology
Digital image processing
Remote sensing of clouds and atmosphere
Weather forecasting
High performance computing in geoscience

Talks On: Web GIS and Web Mapping
Real-time and 3D with ArcGIS
Mobile mapping
Static web maps
Traffic congestion maps
3D modeling from remotely sensed data

16:00-16:20  COFFEE BREAK

MEETING HALL 01 (16:20-17:00)  MEETING HALL 01 (17:00-18:00)
Young Researchers  Workshop

https://gis-remotesensing.environmentalconferences.org/
## SCIENTIFIC PROGRAM

**Friday, 20th September**

### KEYNOTE LECTURES

#### 09:00-10:30
- **Meeting Hall 01**

#### 10:30-10:50
- **COFFEE BREAK**

### MEETING HALL 01

#### 10:50-12:50
- **Talks On:**
  - Global Navigation Satellite System
  - GIS & RS Applications in Forestry

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<thead>
<tr>
<th>Talks On</th>
<th>MEETING HALL 02</th>
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<tbody>
<tr>
<td>Global positioning system (GPS)</td>
<td>Land management</td>
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<td>Global system for mobile communications (GSM)</td>
<td>Agriculture</td>
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<td>Big data processing</td>
<td>Deforestation</td>
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<td>Navigation and communication</td>
<td>Biodiversity conservation</td>
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#### 12:50-13:35
- **LUNCH BREAK**

### MEETING HALL 01

#### 13:35-15:55
- **Talks On:**
  - Cartographic Modeling
  - Implications of GIS in Society

<table>
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<th>Talks On</th>
<th>MEETING HALL 02</th>
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<td>Decision support modeling</td>
<td>GIS social practice</td>
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<tr>
<td>Analysis of mapped data</td>
<td>GIS &amp; RS in climate change</td>
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#### 15:55-16:15
- **COFFEE BREAK**

### MEETING HALL 01 (16:15-17:00)
- **Poster Presentations**

### MEETING HALL 01 (17:00-18:00)
- **Workshop**

[https://gis-remotesensing.environmentalconferences.org/](https://gis-remotesensing.environmentalconferences.org/)
Victor Puchkov Nikolaevich,  
*Russian Academy of Sciences, Russia*

Agustin Fernandez Eguiarte,  
*Universidad Nacional Autonoma de Mexico*

Judit Rubio Delgado,  
*University of Extremadura, Spain*

Andris Klepers,  
*Vidzeme University of Applied Sciences, Latvia*

Valentina Janev,  
*University of Belgrade, Serbia*

Waqas Wajid,  
*Hochschule Anhalt, Bernburg (Saale), Germany*

Katerina Mekhlis,  
*NeoCityLab, Netherlands*

Gloria Bordogna,  
*CNR IREA, Milano, Italy*

Dietrich Heintz,  
*Cropix, Thalwil, Switzerland*

Leanne Sulewski,  
*United States Department of Defense, USA*

Andrews Kwasi Afforo Odoom,  
*Losamills Consult Limited, Ghana*

Napoleon Kurantin,  
*Ghana Institute of Management and Public Administration, Ghana*
Rome Attractions

- Alps
- Colosseum
- Roman Forum
- Pantheon
- Leaning Tower of Pisa
- Amalfi Coast
- Gardaland
- Castel Sant'Angelo
- Lake Garda
- Arlolfi Cosa
Glimpses of GIS Congress Conferences
Scientific Program

4th International Conference on
GIS and Remote Sensing
September 27-28, 2018 | Berlin, Germany
DAY-1  
September 27, 2018  
Meeting Hall: Bismarck

Registrations

Opening Ceremony

KEYNOTE FORUM

Introduction  
**Title:** Applications of GIS and remote sensing in landslide hazard assessment  
Wendy Zhou, Colorado School of Mines, USA

Networking & Refreshments


Chair: Agustin Fernandez Eguiarte, Universidad Nacional Autonoma de Mexico, Mexico  
Co-Chair: Waqas Wajid, Hochschule Anhalt, Bernburg (Saale), Germany

INTRODUCTION

**Title:** Selection of an appropriate height system for geomatics  
Petr Vanicek, University of New Brunswick, Canada

**Title:** A service–enabled visualization for conveying spatial information by summarizing temporal point data  
Leanne Sulewski, United States Department of Defense, USA

**Title:** Deep learning based on U-Net architectures for lithological classification using multi-sensor data  
Yuanze Chen, Technical University of Munich, Germany

GROUP PHOTO

**Title:** Synthesising information in remote sensing images based on an adaptive accumulation of evidence  
Gloria Bordogna, CNR IREA, Milano, Italy

**Title:** Coupling deep learning and GIS for forest damage assessment based on high-resolution remote sensing data  
Zayd Mahmoud Hamdi, Technical University of Munich, Germany

**Title:** Using Sentinel 2A images to analyze temporal variation of estimated chlorophyll content in olive groves and its relationship to phenological stages  
Judit Rubio Delgado, University of Extremadura, Spain

**Title:** Sentinel-1 SAR data for agricultural applications  
Dietrich Heintz, Cropix, Thalwil, Switzerland

Lunch Break
Title: Spatio-temporal analysis of landuse change using Landstat 5 TM and stochastic gradient boosting in peri-urban areas of Yogyakarta, Indonesia  
Sinha Prima Widowati Gunawan, Osaka University, Japan

Title: Spatial analysis of tourism places in post-Soviet contexts: Tourist destinations of Baltic states  
Andris Klepers, Vidzeme University of Applied Sciences, Latvia

Title: Use of geo-spatial techniques to estimate the efficiency of public transport service in an urban area  
Salman Zubair, University of Karachi, Pakistan

Panel Discussion

DAY-2  
September 28, 2018  
Meeting Hall: Bismarck

KEYNOTE FORUM

Title: International Terrestrial Reference Frame (ITRF) and global geodynamics  
Victor Puchkov Nikolaevich, Russian Academy of Sciences, Russia

Sessions: GIS Techniques and Technologies | Geostatistics | Disaster assessment and management  | GIS in renewable energy sources | GIS in Mapping | Seismology and Geodesy

Chair: Leanne Sulewski, United States Department of Defense, USA  
Co-Chair: Andris Klepers, Vidzeme University of Applied Sciences, Latvia  
Co-Chair: Katerina Mekhlis, NeoCityLab, Netherlands

INTRODUCTION

Title: Quantification of the impacts of tropical cyclones on the coasts of the Gulf of Mexico, the Western Caribbean Sea and on the urban, semi-urban and rural localities of Mexico  
Agustin Fernandez Eguiarte, Universidad Nacional Autonoma de Mexico, Mexico

Title: Adopting the linked data approach for spatio-temporal analysis: Opportunities and challenges  
Valentina Janev, University of Belgrade, Serbia
Title: Spatial and sensible planning of chaotic metropolitan city through GIS and remote sensing
Waqas Wajid, Hochschule Anhalt, Bernburg (Saale), Germany

GROUP PHOTO

Lunch Break

Title: A geospatial study on coastal erosion in Krishna-Godavari delta region, Andhra Pradesh, India
Peddada Jagadeeswara Rao, Andhra University, India

Title: Using GIS to develop vulnerability index map for Bassetlaw District Council
Andrews Kwasi Afforo Odoom, Losamills Consult Limited, Ghana

Title: New approach to data visualisation, automated object recognition and urban management based on laser scanning and photo panoramas
Katerina Mekhlis, NeoCityLab, Netherlands

Title: Developing a prototype of geo-spatial system for the implementation of One District, One Factory policy in support of regional economic development and poverty alleviation programmes in Ghana
Napoleon Kurantin, Ghana Institute of Management and Public Administration, Ghana

Networking & Refreshments

Title: Object-based forest cover change mapping using remote sensing in Nuristan province, Afghanistan
Shogufa Popal, Kabul University, Afghanistan

Title: Earthquake risk assessment of Blida (Algeria) using GIS
Khalida Tadjer, University of Blida, Algeria

Poster Presentations

Panel Discussion

Awards & Closing Ceremony