INTERNATIONAL CONFERENCE TERRAenVISION 2019

3-6 SEPTEMBER 2019, BARCELONA
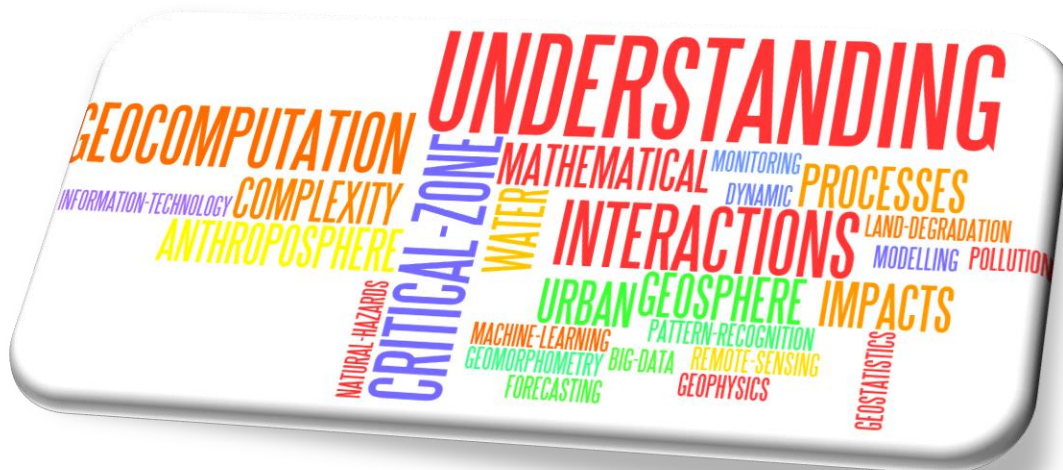
PARTICIPATE IN THE SESSION:

Geosphere-Anthroposphere Interlinked Dynamics: Geocomputing and New Technologies

Conveners: Sebastiano Trevisani, Marco Cavalli, Jean Golay, Francesco Soldovieri, Fabio Tosti

ABSTRACT DEADLINE: July 15 (ORAL), August 15 (POSTER), 2019

EARLY-REGISTRATION FEE DEADLINE: JULY 1, 2019

For info https://terraenvision.eu/registration/ or email to strevisani@iuav.it

We are planning a special issue on the themes of the session in the Elsevier Journal **Science of the Total Environment (IF: 4.610; SJR: Q1)**

Session details

Understanding **interactions** between **anthroposphere** and **geosphere** (e.g., natural hazards, environmental pollution, impacts on ground and surface waters, land degradation, etc.) and forecasting their **time/space** evolution entails to face a challenging ill-posed problem, with high **uncertainties** affecting data and models, especially when **urban** areas or areas close to civil engineering infrastructures are considered. Advances achieved in many areas of technology and science (e.g., remote sensing, geophysical prospecting, drilling equipment, information technology, etc.) have contributed to improving current knowledge on these **interlinked dynamics**. In addition, availability of ever-growing **datasets** allows for better insights into the mechanisms controlling these interactions, although it may also increase the **complexity** of **monitoring**, **modelling** and **forecasting** procedures. In this regard, use of advanced **geocomputational methodologies** such as machine learning, geostatistics, pattern recognition, geomorphometry and other computational-based approaches is nowadays gaining momentum. **This session aims to collect studies related to the analysis of geosphere-anthroposphere interlinked dynamics, with a focus on the critical zone in urban areas as well as in the vicinity of infrastructures. Studies including applied mathematical/numerical approaches based on the use of new advanced methods/techniques (e.g., geophysics, remote sensing, etc.) are particularly solicited. Review presentations in this research area will be also taken into account.**

Essentials for all Abstracts (for updates: https://terraenvision.eu/call-for-abstracts/)

1. Abstract deadline for Oral presentations: **15th of July 2019**
   Abstract deadline for Poster presentations: **15th of August 2019**
2. Authors should indicate which session their abstract is intended for and include all required information (see Instructions for Abstract Format)
3. Presenting authors whose abstract are accepted for presentation must register and cover registration fees before the **15th of August 2019**.
4. Abstracts must be prepared in English. Please ensure that your abstract does not contain spelling, grammatical or scientific errors, as this can be grounds for rejection. In case of acceptance, changes in the abstract title, text or authorship won't be allowed.
5. After review by the scientific committee, the presenting author will be notified via e-mail about: (a) the acceptance or rejection of the abstract, (b) the decided session and format of the presentation (oral or poster), and (c) in case the scientific committee indicates that the work needs corrections, the authors will have a single opportunity to send a new version of the abstract according to the suggestions and corrections of the scientific committee.
6. The exact day and time of the presentation will depend on session schedule. Presenting/contact authors will be notified about the schedule.
7. Accepted abstracts will be posted on the conference website.

Please follow these instructions carefully. Abstracts not prepared correctly will not be considered for presentation. Correction of abstracts cannot be accepted after the submission deadline.

Instructions for Abstract Format

Title: maximum 2 lines.

Names of all authors

Affiliations of all authors

E-mail addresses of all authors

Keywords: from 3 to 5

Presentation format: oral or poster

Session for which the abstract is submitted to

Abstract: max 400 words