

KEYNOTE SPEAKER

**ENZO SANTORO**  
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**Title: THE ACQUISITION, PRODUCTION AND DISSEMINATION OF GEOSPATIAL DATA FOR EMERGENCY MANAGEMENT AND PRESERVATION OF CULTURAL HERITAGE.**



**Abstract:** The crisis management of a disaster, whether caused naturally or by human action, requires a thorough knowledge of the territory involved, with regard to both its terrain and its developed areas. Therefore, it is essential that the National Mapping and Cadastral Agencies (NMCAs) and all other public and scientific institutions responsible for the production of geospatial information closely co-operate in making their data in that field available. This crucial sharing of geographic information is a top-level priority, not only in a disaster emergency situation, but also for effective urban and environmental planning and cultural heritage protection and preservation.

Geospatial data-sharing, responding to the needs of all institutions involved in disaster surveying operations, is fundamental, as a priority, to the task of avoiding loss of human lives. However, no less important is the acquisition, dissemination and use of this data, in addition to direct, “in-the-field” operations of specialists in geomatics, in order to preserve the cultural heritage located in the crisis area. It is in this context that an NMCA such as the Italian Military Geographic Institute (IGMI) plays a key role.

# GEO RES2017

Conservation of Cultural Heritage in the Digital Era  
**22 – 24 May 2017, Florence**

Preliminary Young Researcher Workshop  
**19 – 21 May 2017, Florence**

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**Bio:** Colonel Enzo Santoro is an officer in the Italian Army Corps of Engineers. At the Italian Geographical Institute (IGMI) in Florence, he is the head of the Geographical Information Department. In this role he is responsible for cartographic production (1:25000 scale and lower) in both analog and digital formats, database development, and management of the geodetic network covering the territory of Italy.

He holds the degree in mathematics and subsequent advanced study in topography, cartography and geodesy. At the IGMI, where he has been based for most of his career, he has also become interested in all the fields related to geomatics. In particular, he has been actively involved, both in planning and in the executive phases, in several geodetic surveying projects (leveling, GPS, geodetic astronomy).

Additionally, he has participated in the realization of “IGM95”, the new Italian satellite network.

He also took part in a peacekeeping mission in Bosnia–Herzegovina, determining GPS reference points, to support the work of military units identifying and removing explosive devices.

From 1996 to 2003, as head of the IGMI's cartographic and photographic archives, he provided significant impetus on activities focused on the conservation, enhancement and dissemination of the unique cultural heritage in its possession. The online cataloging of these archives was begun under his direction.

From 1997 to 2002 he was an instructor in the IGMI's Scuola Superiore di Scienze Geografiche teaching “Mathematical methods for the processing of survey data” and “Geodetic astronomy and positioning”.

He is a member of the Italian Association of Cartography (AIC) and the Italian Association of Photogrammetry and Topography (SIFET).

At present Colonel Santoro is involved in several projects related to the realization of a new high quality DSM (Digital Surface Model), a 1:25000 scale hydrography layer, and the rapid production of 1:50000 scale maps of the entire Italian territory, meeting the needs of both the Italian Armed Forces and the Italian Civil Protection Agency.