



The International Committee for Documentation of Cultural Heritage (CIPA)

3rd Edition of the Summer School

CULTURAL HERITAGE 3D SURVEYING & MODELLING

30th August – 4th September 2016, Valencia, Spain

Sponsors



AIMS of the Summer School

The [CIPA Heritage Documentation](#) Summer School on “*Cultural Heritage 3D Surveying and Modelling*” consists of **theoretical lectures** (3D surveying, photogrammetry, active sensors, etc.) and **practical work**, in the field and in the lab. The participants will learn the basics in surveying and data acquisition (with digital cameras, laser scanning sensors and UAV platforms) as well as practice with data processing methods for **3D models** and **metric products** generation. This Summer School gives the opportunity to scholars, PhD students, researchers and specialists in the surveying and heritage fields to deepen their knowledge and expertise with reality-based 3D modelling techniques.

The participants, during the practical works, will be divided in groups and with some tutors they will exercise with photogrammetry, laser scanning and topography within the university area full of sculptures distributed across the garden. Each group will be responsible of the digitization of artefacts and big structures and in the last day the results will be presented. The participants must bring a **laptop** (middle-high performances) and, possibly, a digital camera. Other surveying instruments and processing software will be distributed by the organizers.

The Summer School is organised by [CIPA – International Committee for Documentation of Cultural Heritage](#) within its dissemination and technology transfer activities. CIPA is an international committee of [ICOMOS](#) and [ISPRS](#) aiming at keeping up with technology and ensuring its usefulness for cultural heritage conservation, education and dissemination. The CIPA Summer School is financially supported by its [Sustaining Members](#).

The 3rd Edition of the Summer School is considered as a Pre-Congress Workshop of [ARQUEOLÓGICA 2.0 – 8th International Congress on Archaeology, Computer Graphics, Cultural Heritage and Innovation](#). Participants will be allowed to continue their tuition with live experiences, presentations and demos from colleagues from all over the world!!

Figure 1 presents results of the previous CIPA Summer School experiences undertaken in Paestum in 2014 and 2015. The same lecturers and tutors will continue their lecturing for the 3rd Edition of the Summer School.



Fig. 1. From data acquisition with different devices up to 3D geometric models.

School Programme – 30th August - 4th September, 2016

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| Day 0 | Mon 29/08 | Arrival and icebreaking party @ 19:00 |
| Day 1 | Tue 30/08 | Lectures: topography, photogrammetry, laser scanning, 3D modelling |
| Day 2 | Wed 31/08 | Surveying / data acquisition on site |
| Day 3 | Thu 1/09 | Surveying / data acquisition on site |
| Day 4 | Fri 2/09 | Data processing in the lab |
| Day 5 | Sat 3/09 | Data processing in the lab |
| Day 6 | Sun 4/09 | Final presentations and social dinner |

English is the official language of the CIPA Summer School.

Participation & registration

The registration fee for the participation is **550 €**. The fee includes: lecture material, full-board hotel, welcome party, social dinner and free internet access. Furthermore, it allows the participants to get a Student registration Fee for attending [ARQUEOLÓGICA 2.0 – 8th Int. Congress](#).

The maximum number of participants is **24**; the minimum, **20**. The participant selection will be done according to the order of arrival of the requests. A motivation letter (including a short CV) must be uploaded by the participants during registration. In order to register, please go to the [REGISTRATION FORM](#). Please send your information before 30th May 2016.

Venue and location

The Summer School will be held at the [Universitat Politècnica de València \(UPV\)](#), Fig. 2a. Participants will follow the theoretical and laboratory lessons at the [School of Geodesy, Cartography and Surveying](#) (Fig. 2b), Laboratory of Digital Photogrammetry. The garden inside the campus, full of large sculptures, will be used for the practice. The Colegio Mayor Galileo Galilei inside the UPV will accommodate the participants with full-board double rooms. The UPV Campus de Vera is full of facilities and services such as bank, library, bookstore, restaurants, news-stand, swimming pool, gym, athletics track, boulders, etc.



Fig. 2. a) Universitat Politècnica de València, Agora, Campus de Vera; b) School of Geodesy, Cartography and Surveying (Building 7i).

Lecturers and tutors:

- Fabio Remondino – FBK Trento, Italy
- Pierre Grussenmeyer – INSA Strasbourg, France
- Geert Verhoeven – LBI Vienna, Austria
- Fabio Menna – FBK Trento, Italy
- Francesco Fassi – Politecnico of Milano, Italy
- Andreas Georgopoulos – NTUA, Athens, Greece
- Stratos Stylianidis – AUTH, Thessaloniki, Greece
- José Luis Lerma – UPV, Valencia, Spain
- Erica Nocerino – FBK Trento, Italy
- Isabella Toschi – FBK Trento, Italy