

CALENDAR



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EUROPEAN RESEARCH INFRASTRUCTURE
FOR HERITAGE SCIENCE

TRAINING CAMP 2024

Digital Heritage Camp:
3D Surveying Training in
Sermoneta Castle and Ninfa Park

August 26 - September 7

SERMONETA
Latina, Lazio, Italy

organised by

CNR | DSU

Consiglio Nazionale
delle Ricerche

ISPC Istituto di Scienze del
Patrimonio Culturale

Consiglio Nazionale
delle Ricerche

ISTI Istituto di Scienza e Tecnologie
dell'Informazione "A. Faedo"



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26.08 Monday | Presentation

- 09:00 - 10:00 Caetani Castle Presentation tour**
Tour guide Roffredo Caetani Foundation
- 10:00 - 10:30 Official greetings**
CNR ISPC & Roffredo Caetani Foundation
- 10:30 - 11:00 Keynote speech**
Costanza Miliani, CNR ISPC interim Director
- 11:00 - 11:30 Coffee Break**
- 11:30 - 13:00 Course presentation, objectives, methods, philosophy**
Daniele Ferdani and Diego Ronchi (CNR ISPC), Marco Callieri (CNR ISTI)
- 13:00 - 14:00 Lunch**
- 14:00 - 17:00 Ninfa Park Presentation tour**
Tour guide Roffredo Caetani Foundation
- 17:30 - 19:30 Social event: Aperitif and division in groups**
- 19:30 - 20:30 Dinner**

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MODULE 1 | Topography Andrea Angelini, CNR ISPC

27.08 Tuesday | Theoretical lessons

- 09:00 - 10:30 **Topographic survey: theory and methods**
- 10:30 - 11:00 Coffee Break
- 11:00 - 13:30 **Topographic survey: theory and methods**
- 13:30 - 14:30 Lunch
- 14:30 - 15:30 **Topographic survey: field activity and data processing**
- 15:30 - 16:00 Coffee Break
- 16:00 - 17:00 **Topographic survey: field activity and data processing**
- 19:30 - 20:30 Dinner

MODULE 2 | Photogrammetry: 2a + DEMO 3: GuPho Fabio Remondino, FBK

28.08 Wednesday | Theoretical lessons & Data processing

- 09:00 - 11:00 **Keynote speech**
- 11:00 - 11:30 Coffee Break
- 11:30 - 13:30 **Photogrammetry: theory and methods- Basics**
- 13:30 - 14:30 Lunch
- 14:30 - 15:30 **Photogrammetry: field activity and data processing**
- 15:30 - 16:00 Coffee Break
- 16:00 - 17:30 **DEMO: GuPho**
- 19:30 - 20:30 Dinner

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MODULE 2 | Photogrammetry: 2b, 2c & MODULE 5 | Cloud Compare

Enzo d'Annibale, CNR ISPC | Luca Morelli and Elisa Mariarosaria Farella, FBK)

29.08 Thursday | Fieldwork, theoretical lessons & Data processing

- 09:00 - 10:00** **Panoramic Photogrammetry**
Enzo d'Annibale, CNR ISPC
- 10:00 - 11:00** **Panoramic photogrammetry: field activity and data processing**
Enzo d'Annibale, CNR ISPC
- 11:00 - 11:30** Coffee Break
- 11:30 - 13:30** **Photogrammetry AI**
Luca Morelli, FBK
- 13:30 - 14:30** Lunch
- 14:30 - 16:00** **Cloud Compare**
Elisa Mariarosaria Farella, FBK
- 16:00 - 16:30** Coffee Break
- 16:30 - 18:00** **Cloud Compare**
Elisa Mariarosaria Farella, FBK
- 19:30 - 20:30** Dinner

MODULE 3 | TLS (Terrestrial Laser Scanner) survey

Marco Limongiello, UNISA

30.08 Friday | Fieldwork, theoretical lessons & data processing

- 09:00 - 11:00** **TLS survey: theory and methods**
- 11:00 - 11:30** Coffee Break
- 11:30 - 13:30** **TLS survey: field activity**
- 13:30 - 14:30** Lunch
- 14:30 - 15:30** **TLS survey: field activity and data processing**
- 15:30 - 16:00** Coffee Break
- 16:00 - 17:00** **TLS survey: data processing**
- 19:30 - 20:30** Dinner

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EXTRA ACTIVITIES

31.08 Saturday

FULL DAY Visit to the village and archeological park of Privernum and wine tasting

01.09 Sunday

AFTERNOON Visit to the Valvisciolo Abbey and canoe trip on the Cavata River

NOTE

→ The extra activities are to be confirmed according to attendees and weather conditions.

MODULE 4 | Close Range Scanning

Nicolò Dell'Unto, LUND University | Diego Ronchi and Domenica Dininno, CNR ISPC

02.09 Monday | Close Range Scanning

- 09:00 - 11:00** **Keynote speech: Digital Collection**
Nicolò Dell'Unto, LUND University
- 11:00 - 11:30** Coffee Break
- 11:30 - 13:30** **Close Range Scanning: theory and methods**
Diego Ronchi, CNR ISPC
- 13:30 - 14:30** Lunch
- 14:30 - 15:30** **Close Range Scanning: field activity and data processing**
Diego Ronchi and Domenica Dininno, CNR ISPC
- 15:30 - 16:00** Coffee Break
- 16:00 - 17:30** **Close Range Scanning: field activity and data processing**
Diego Ronchi and Domenica Dininno, CNR ISPC
- 19:30 - 20:30** Dinner

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MODULE 6 | MeshLab & MODULE 7 | Passive and active technologies integration
Marco Callieri, CNR ISTI | Daniele Ferdani and Diego Ronchi CNR ISPC

03.09 Tuesday | Data processing

- 09:00 - 11:00 TLS+PHG integration: data processing**
Daniele Ferdani and Diego Ronchi CNR ISPC
- 11:00 - 11:30** Coffee Break
- 11:30 - 13:30 TLS+PHG integration: data processing**
Daniele Ferdani and Diego Ronchi CNR ISPC
- 13:30 - 14:30** Lunch
- 14:30 - 16:00 Intro to 3D Computer Graphics**
Marco Callieri, CNR ISTI
- 16:00 - 16:30** Coffee Break
- 16:30 - 18:00 Intro to 3D Computer Graphics**
Marco Callieri, CNR ISTI
- 19:30 - 20:30** Dinner

DEMO 1 | Drone

Stefano Campana, UNISI | Nicola Masini and Nicodemo Abate, CNR ISPC

04.09 Wednesday | Demo

- 09:00 - 11:00 Keynote speech: Survey in Archaeology**
Stefano Campana, UNISI
- 11:00 - 11:30** Coffee Break
- 11:30 - 13:30 Drone mapping (RGB/Lidar)**
Nicola Masini and Nicodemo Abate, CNR ISPC
- 13:30 - 14:30** Lunch
- 14:30 - 16:00 Trip to Monumento Naturale di Ninfa**
- 16:00 - 18:00 Demo: Drone mapping (RGB/Lidar) demonstration**
Nicodemo Abate, CNR ISPC
- 18:30 - 19:30** Social event (Aperitif)
- 19:30 - 20:30** Dinner

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DEMO 2 | SLAM & MODULE 6 | MeshLab

Elena Gigliarelli and Filippo Calcerano, CNR ISPC | Michele Calvano, Sapienza

Marco Callieri, CNR ISTI

05.09 Thursday | Demo & Processing

09:00 - 10:00 Geoslam introduction

Elena Gigliarelli and Filippo Calcerano, CNR ISPC | Michele Calvano, Sapienza

10:00 - 11:00 Geoslam: field activity

Elena Gigliarelli and Filippo Calcerano, CNR ISPC | Michele Calvano, Sapienza

11:00 - 11:30 Coffee Break

11:30 - 13:00 Geoslam: data processing

Elena Gigliarelli and Filippo Calcerano, CNR ISPC | Michele Calvano, Sapienza

13:30 - 14:30 Lunch

14:30 - 15:30 MeshLab

Marco Callieri, CNR ISTI

15:30 - 16:00 Coffee Break

16:00 - 17:30 MeshLab

Marco Callieri, CNR ISTI

19:30 - 20:30 Dinner

MODULE 8 | Data Publication

Bruno Fanini, CNR ISPC | Marco Callieri, CNR ISTI

06.09 Friday | Data Deployment

09:00 - 11:00 ATON presentation

Bruno Fanini, CNR ISPC

11:00 - 11:30 Coffee Break

11:30 - 13:30 ATON hands-on

Bruno Fanini, CNR ISPC

13:30 - 14:30 Lunch

14:30 - 16:00 3DHOP presentation

Marco Callieri, CNR ISTI

16:00 - 16:30 Coffee Break

16:30 - 18:00 3DHOP hands-on

Marco Callieri, CNR ISTI

19:30 - 20:30 Dinner

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