

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

SpC Istituto di Scienze del
Patrimonio Culturale

Consiglio Nazionale
delle Ricerche

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
- Course presentation, objectives, methods, philosophy**
Daniele Ferdani and Diego Ronchi (CNR ISPC), Marco Callieri (CNR ISTI)
- 10:30 - 11:00 Keynote speech**
Costanza Miliani, CNR ISPC interim Director
- 11:00 - 11:30 Coffee Break**
- 11:30 - 13:00 Keynote speech: Survey in Archaeology**
Stefano Campana, UNISI
- 13:00 - 14:00 Lunch**
- 14:00 - 17:00 Ninfa Park Presentation tour**
Tour guide Roffredo Caetani Foundation
- 17:30 - 19:30 Aperitif (optional) and groups division**
- 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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31.08 Saturday

FREE DAY

01.09 Sunday

FREE DAY

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 Drone mapping (RGB/Lidar)**
Nicola Masini and Nicodemo Abate, CNR ISPC
- 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
- 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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