

AE LAB 1

Architecture & Environment Laboratory

Land Knowledge, Practices & Data Acquisition

The first AE LAB focuses on land knowledge, land use practices, and approaches, methods and technologies for land use related multi-scalar data acquisition on the case of terraced vineyards in Lamole, Tuscany.

Wednesday 11 September 2019

AE LAB 1 Seminar @ Aula Caminetto, DICEA - University of Florence

Thursday 12 & Friday 13 September 2019

AE LAB 1 Field Experiments in Lamole, Tuscany

AE LAB 1 is a collaboration between GEICO - Geomatics for Environment and Conservation of Cultural Heritage Laboratory of the Department of Civil and Environmental Engineering at the University of Florence, the Department of Digital Architecture and Planning at Vienna University of Technology, and the Chair of Building Technology and Climate Responsive Design at Technical University of Munich.

The AE LAB 1 is co-sponsored by the International Society for Photogrammetry and Remote Sensing - ISPRS.

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Wednesday 11 September 2019

AE LAB 1 Seminar @ Aula Caminetto, DICEA, University of Florence

09:30 Welcome & Introduction

Prof. Dr. Grazia Tucci & Prof. Dr. Michael U. Hensel

10:00 Geomatics: A science between metric and thematic data

Arch. Dr. Valentina Bonora

10:30 Embedded Architectures: Data-acquisition for architecture and environment integration

Prof. Dr. Michael U. Hensel

11:00 Aerial Photogrammetry by UAV in Precision Agriculture

Filippo Faschi

11:30 Ecological Prototypes: Data-driven research on historical agricultural structures and practices to develop integrated architecture and landscape solutions

Dr. Defne Sunguroglu Hensel

12:00 Urban and Rural Climatewalks: a geo-referenced method to map comfort at human level

Arch. Daniele Santucci & Arch. Ata Chockhachian

12:30 spatial.data.austria - Austrian administration and the data available to planners

Dr. Arnold Faller

13:00 Lunch break

14:30 Multi-sensor UAV Application for Thermal Analysis in Lamole: the previous experience

Dr. Erica I. Parisi

15:00 BIM and Museums: the case study of Galleria dell' Accademia in Florence

Arch. Alessandro Conti

15:30 Positioning and Synchronization for Sensor Integration

Eng. Dr. Andrea Maserio

16:00 Discussion

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