

# Harmonized UAS techniques: Introduction to data acquisition and preprocessing

Svarmi Efh, Reykjavik, Iceland  
03-08 September 2018

**HARMONIOUS**  
uas for environmental monitoring

<https://www.costharmonious.eu>

# Course Outline and Contents

- Introduction to UAS platforms and sensors
- Principals of UAS flight operations
- Navigation and flight planning
- Flight regulatory framework
- Geometric and Radiometric pre-processing: When and How?
- Photogrammetry and Structure from Motion
- Introduction to open-source and proprietary software for UAS data pre-processing
- In-situ flight experiments and hands-on UAS data preprocessing
- Round table: Harmonized UAS pre-processing roadmap

## Trainers

Prof. Giuseppe Ciruolo – University of Palermo (IT) - Training Course Coordinator

Prof. Lyndon Estes - Clark University (US)

Dr. Mike James - Lancaster University (UK)

Dr. Alasdair MacArthur - University of Edinburgh (UK)

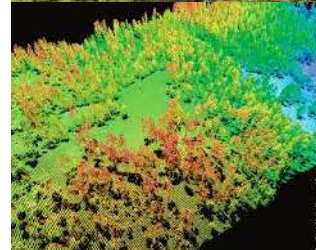
Victor Madrigal - Svarmi - (Lead Organiser, WG1 Co-Chair) (IS)

Prof. Giorgos Mallinis - Democritus University of Thrace (GR)- WG1 Co-Chair

Prof. Salvatore Manfreda – University of Basilicata (IT) – Action Chair

Dr. Pauline Miller - James Hutton Institute (UK) - WG1 Chair

Dr. Nigel Penna – Newcastle University (UK)



# Location and Directions



# Registration

**Our aim is to provide an hands-on experience with a very low student-teacher ratio. Therefore, enrolment is limited to 16 students.**

**The course will be free of charges and supported by COST Action. Potential candidates should submit their request by mail to [caharmonious@gmail.com](mailto:caharmonious@gmail.com) with a motivation letter, a recommendation letter and their CVs.**

**Deadline for applications is the 20th of July 2018.**