

Advances in Environmental Monitoring with UAS International Workshop

30th March 2022 (MTA DAB székház)

PROGRAM

08:30 - 09:30 Registration

09:30-09:50: László Bertalan, Brigitta Tóth – Welcome from local organizers

09:50-10:05: Salvatore Manfreda - The achievements HARMONIOUS COST Action

10:05-10:25: Plenary talk: Francesco Nex - Towards real-time UAS mapping: example, challenges and opportunities

10:25-10:55: Plenary talk: James Dietrich - Drones for River Monitoring, a ten-year perspective

10:55-11:20 Coffee Break

11:20-11:35: Sorin Herban - Summary of WG1: UAS data processing

11:30-11:50: Jana Müllerová – Summary of WG2: Vegetation status (part 1)

11:50-12:05: Antonino Maltese – Summary of WG2: Vegetation status (part 2)

12:05-12:20: Yiyian Zeng – Summary of WG3: Soil moisture content

12:20-12:35: Dariia Strelnikova – Summary of WG4: River monitoring

12:35-12:50: Eyal Ben-Dor - Summary of WG5: Harmonization of methods and results

12:50-14:30: Lunch break

14:30-14:45: Gábor Papp - HungaroControl's Air-Ground-Air communication concept in order to enable UAVs' ecosystem

14:45-15:00: Géza Király et al. – UAS and their application in forest monitoring

15:00-15:15: Gábor Bakó et al. – HRAM: High Spatial Resolution Aerial Monitoring Network for Nature Conservation

15:15-15:30: Ferenc Kovács et al. – Application of UAS imagery in environmental research at the University of Szeged

15:30-15:45: Anette Eltner et al. – Hydro-morphological mapping of river reaches using videos captured with UAS

15:45-16:00: Ilyan Kotsev et al. - UAS-aided bedform and habitat mapping of Bolata Cove, Bulgarian Black Sea

16:00-16:30: Coffee Break

16:30-16:50: Lance R. Brady - UAS for Research and Applied Science in the United States Geological Survey

16:50-17:05: Kamal Jain et al. – Crop identification and classification from UAV images using conjugated dense convolutional neural network

17:05-17:20: Nicolas Francos et al. – Mapping Water Infiltration Rate Using Ground and UAV Hyperspectral Data
A Case Study of Alento, Italy

17:20-17:35: Martin Jolley et al. – Considerations When Applying UAS-based Large-Scale PIV and PTV for Determining River Flow Velocity

17:35-17:50: Adrian Gracia-Romero et al. – UAS plant phenotyping under abiotic stresses

17:50-18:05: Shawn C. Kefauver et al. - High-resolution UAV Imaging for Forest Productivity Monitoring

Attendance at the Workshop is free, but registration is required.

Coffee breaks, refreshments and lunch are provided for each registered participants free of charge.

Registration: www.costharmonious.eu/2022/01/18/final-general-assembly

The event is co-organized by :

HARMONIOUS COST Action (CA16219)
Hungarian Academy of Sciences, Academic Commission Debrecen, Committee of Earth Sciences











