

HARMONIOUS WORKSHOP

Remote Sensing of the Environment using Unmanned Aerial Systems (UAS)

Aristotle University Research Dissemination Centre, Thessaloniki,
GREECE

September 1-3, 2021

Important notice:

- For travelling and other restrictions due to Covid pandemic please regularly consult the page of the Greek government (<https://travel.gov.gr/#/>) and relevant pages of your country
- For the entrance to the Dissemination centre please use you QR ticket.



Program

Growing
ideas
through
networks

Wednesday - 1.9.2021 - Workshop

9:00-10:00 Registration and welcome

10:00- 10:20 Welcome from local organization

10:20-10:50 Harmonization of UAS techniques for agricultural and natural ecosystems monitoring.

Salvatore Manfreda

10:50-11:20 Mapping water infiltration rate using ground and UAV hyperspectral data: a case study of Alento, Italy.

Nicolas Francos, N. Romano, P. Nasta, Y. Zeng, B. Szabó, S. Manfreda, G. Ciarolo, J. Mészáros, R. Zhuang, B. Su, E. Ben-Dor

11:00 -11:30 Coffee Break

11:20-10:50 UAV platform and software for hyperspectral imaging using a low-cost spectrometer.

Tomasz Berezowski, M. Kulawiak, M. Kulawiak

11:50-12:20 Soil Moisture Monitoring Using UAS.

Ruodan Zhuang, S. Manfreda, Y. Zeng, Z. Su, E. Ben Dor, G. P. Petropoulos

12:20-12:50 Upscaled UAV photogrammetry workflow for disaster recovery purposes.

Petr Dvorak, I. Jebacek, M. Cervenka, T. Hajek, R. Popela, J. Juracka

12:50-13:20 – Discussion

13:20-15:00 Lunch break



ARISTOTLE
UNIVERSITY OF
THESSALONIKI

15:00-15:30 Monitoring of river channel dynamics by UAS.

László Bertalan, A. Eltner, I. Maddock, A. Pizarro, S. Noto, F. Tauro

15:30-16:00 Stage-Cams For Headwater Streams.

Salvatore Grimaldi

16:00-16:30 Combining the use of Uncrewed Aerial Systems (UAS) and Pole-Mounted Photography (PMP) for monitoring leaky dams for Natural Flood Management.

Ian Maddock, J. Lynch, J. Atkins

16:30 - 17:00: A methodological approach to test the sensitivity of Rillstats for the monitoring the effects of conservation tillage on soil erosion using Uncrewed Aerial Vehicles (UAVs).

Josie Lynch

17:00-17:30 Assessment of natural vegetation by UAS - current state and perspectives.

Jana Müllerová and members of the WG2

17:30-18:00 UAS-Based Mapping of Depositional Landforms Along the North Bulgarian Black Sea Coast for Habitats Identification and Classification.

Bogdan Prodanov, I. Kotsev, R. Bekova, T. Lambev, L. Dimitrov

18:00-18:30 Estimating Rice Agronomic Traits Using Drone-Collected Multispectral Imagery

Dimitrios Katsantonis, Dimitrios Stavrakoudis, Argyrios Kalaitzidis

Topic: Harmonious Workshop - September 2021

Join Zoom Meeting

<https://authgr.zoom.us/j/94267194820?pwd=bjITLzFKTzFSMTJiSFdXUjE3N3JFQT09>

Meeting ID: 942 6719 4820

Passcode: 028670



Thursday - 2.9.2021 - WG meetings

10:00-18:00 Working group activities coordinated by the WG

11:20-12:00 Coffee Break

13:30-15:00 Lunch break

20:00 Social dinner (Thessaloniki centre)

Friday 3.9.2021 – Management Committee

10:00 -13:00 MC Meeting

11:20 -12:00 Coffee Break



Location and Directions

The workshop and the meetings will be held at the KEDEA Research Dissemination Centre. The building, with a characteristic red color, is located on Tritis Septemvriou str. at the Aristotle University's campus

Coordinates in google maps:

<https://goo.gl/maps/Ps6NnhXtAn9whgdDA>
40.62599071583328, 22.960548282468633



HARMONIOUS
UAS for environmental monitoring



ARISTOTLE
UNIVERSITY OF
THESSALONIKI

The KEDEA building is connected with the following public transport bus lines:

From [Thessaloniki](#) Airport Macedonia (SKG)

[Line 01X: AIRPORT - INTERCITY BUS TERMINAL \(VIA CITY CENTRE\)](#)

- [From bus stop 36013 MACEDONIA AIRPORT – ARRIVALS](#)
- [To bus stop 01137 UNIVERSITY OF MACEDONIA](#)

walk 5 min. to the dissemination centre

Other connections:

2, 7,14,58 Bus Stop University of Macedonia

10,31 Bus Stop Agia Foteini- University of Macedonia

For Chalkidiki

[Line 45B: KTEL MAKEDONIA - COSMOS - K.T.E.L. CHALKIDIKIS \(INTERCITY BUS STATION\)](#)

Further information to bus lines

<https://oasth.gr/>

ARISTOTLE UNIVERSITY
RESEARCH DISSEMINATION CENTER



HARMONIOUS
UAS for environmental monitoring