

**Summer school on exploring the landscape with dynamic visualization,
tangible interaction, and UAV-lidar**

The Summer school will be held at [Pavol Jozef Šafárik University in Košice](#) (UPJS) in the period of 15-18 July 2019. The event is organized by the [Institute of Geography, Faculty of Science](#).

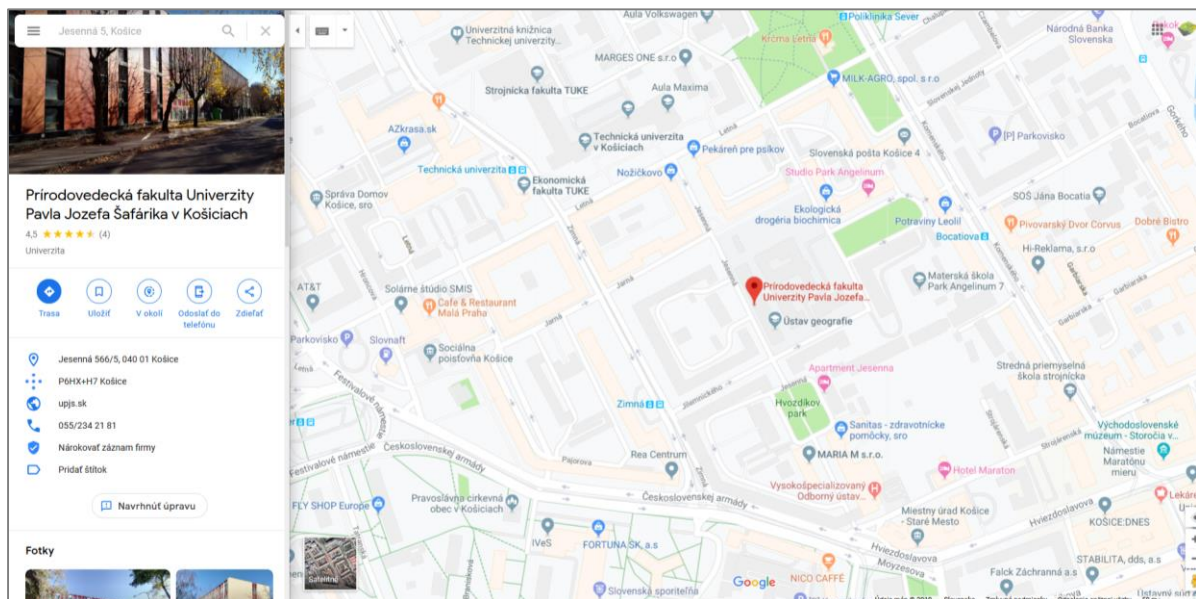
[Web link](#)

LOCATION

Jesenná 5, Košice

48°43'44.7"N 21°14'54.3"E

48.729093, 21.248414



PARKING

There is a paid parking around the University building, we recommend to use the Letná, Zimná, or Strojnícka street. Free parking is available near Technical University, 48°44'01.4"N 21°14'37.2"E, which is 10 minutes walk from the venue of the Summer School.

LECTURES & SCHEDULE

15 July 2019

UPJS Building, Jesenná 5,

First floor, Videoconferencing room SJ 1S24 (2.17T)

8:30 - 9:00 *Registration*

9:00 - 9:15 Official welcome

9:15-9:45 Jaroslav Hofierka (UPJS): Geospatial modelling in high resolution: activities and results of the UPJS team.

9:50-10:30 Helena Mitášová (North Carolina State University, USA): Exploring changing landscapes with dynamic visualizations and tangible interaction in GRASS GIS and with Tangible landscape.. (Lecture 1).

10:30 - 10:50 *Coffee break*

10:50 - 12:00 Helena Mitášová (North Carolina State University, USA): TGRASS for multitemporal surfaces. Tangible landscape technology. (Lecture 2).

12:00 - 13:00 *Lunch break*

UPJS Building, Park Angelinum 9 (Entrance via Jesenná 5)

First floor, Computer room SA1C03

13:00 - 14:30 Helena Mitášová (North Carolina State University, USA): Geospatial analysis and visualization of high resolution, multitemporal surfaces. (Practical exercise).

14:30 - 14:50 *Coffee break*

14:50 - 16:30 Helena Mitášová (North Carolina State University, USA): Tangible landscape: evaluation and development of educational activities. (Practical exercise).

16 July 2019

UPJS Building, Jesenná 5,

First floor, Videoconferencing room SJ 1S24 (2.17T)

8:30 - 9:30 Michal Gallay (UPJS): The unpiloted helicopter system for remote sensing Scout B1-100: background and experience, introductory demonstration flight (Lecture on the background)

9:30 - 10:15 Bus transport to the field airport Mirkovce (20 min drive north from Košice)

10:15 - 12:00 Ján Kaňuk, Eduard Dvorný, Michal Gallay (UPJS): Demonstrating the lidar-data collection and processing with the UAV helicopter Scout B1-100 in the field (**field airport near Mirkovce**)

12:00 - 12:30 Bus transport back to Košice (UPJŠ)

12:30 - 13:30 *Lunch break*

UPJS Building, Park Angelinum 9 (Entrance via Jesenná 5)

First floor, Computer room SA1C03

13:30 - 14:40 Ján Kaňuk, Michal Gallay (UPJS): IMU/GPS flight line data processing (Practical exercise)

14:40 - 15:00 *Coffee break*

15:00 - 16:30 Ján Kaňuk: UAV-VUX1 Lidar-data processing in RiProcess (Demonstration of a case study)

17 July 2019

UPJS Building, Park Angelinum 9 (Entrance via Jesenná 5)

First floor, Computer room SA1C03

8:30 - 10:00 Martin Isenburg (rapidlasso GmbH): Processing UAV-lidar, UAV-SfM, ALS data in LAStools (Hands-on training).

10:00 - 10:30 *Coffee break*

10:30 - 12:00 Martin Isenburg (rapidlasso GmbH): Processing UAV-lidar, UAV-SfM, ALS data in LAStools (Hands-on training).

12:00 - 13:00 *Lunch break*

13:00 - 14:30 Martin Isenburg (rapidlasso GmbH): Processing UAV-lidar, UAV-SfM, ALS data in LAStools (Hands-on training).

14:30 - 14:50 *Coffee break*

14:50 - 16:30 Martin Isenburg (rapidlasso GmbH): Processing UAV-lidar, UAV-SfM, ALS data in LAStools (Hands-on training).

18 July 2019

Departure from Košice 8:30, latest arrival to Košice 16:00

Exploring the taste of the Tokaj wine region (Field trip) – look out tower in Veľká Trňa, visiting the vineyard from which the lidar sample data come from, including lunch + tasting of 6 local wine sorts (price 25-35 EUR)