

# Program

## UAV in Smart City and Smart Region



GIS Ostrava  
2020

Please note that the time specified for individual performances are approximate.

Wednesday 18. 3. 2020			
Start	End	Title	Presenter / moderator
13:00	13:05	<b>Opening</b>	<b>Michal Kačmařík (VŠB-TU Ostrava)</b>
13:05	13:35	<b>New trends of UAV technology in Geomatics</b>	<b>Francesco Nex (University of Twente)</b>
13:35	13:40	Questions, discussion	
13:40	14:10	<b>Challenges and future of the UAV regulation</b>	<b>Jakub Karas (UpVision)</b>
14:10	14:30	Questions, discussion	
		<b>Session 2D and 3D mapping</b>	<b>Michal Kačmařík (VŠB-TU Ostrava)</b>
14:45	15:05	World War 2 bombing relicts identification using lidar-derived precise digital terrain model	Jan Pacina (UJEP)
15:05	15:25	Use of UAV in Cadastral Mapping of The Czech Republic	Václav Šafář (VŠB-TU Ostrava)
15:25	15:45	Comparison of UAV LiDAR and photogrammetry approaches for the survey of the Cultural Heritage in challenging conditions	Sara Gagliolo (University of Genoa)
15:45	16:05	A Comparative Study of Low-Cost UAV Point Clouds with Terrestrial Laser Scanner Point Cloud of a Building	Inshu Chauhan (G.B. Pant Institute of Engineering and Technology)
16:30	18:00	<b>Workshop The role of Vienna's geoinfrastructure in Viennese Smart City Initiatives</b>	<b>Franz Xaver Pfaffenbichler (City of Vienna)</b>
Thursday 19. 3. 2020			
		<b>Session Environmental mapping and monitoring</b>	<b>Michal Kačmařík (VŠB-TU Ostrava)</b>
9:30	9:50	Using UAV to Monitoring Selected Populations of zhe European Hamster (Cricetus Cricetus L.) in Southern Poland	Paulina Strejczek-Jaźwińska (University of Agriculture in Krakow)
9:50	10:10	UAV-Powered DOAS Tomography	Rui Valente de Almeida (NOVA University of Lisbon)
10:10	10:30	LiDAR and image point clouds as a source of 3D information for a smart city – the case study from trees inventory Jordan Park in Krakow, Poland	Monika Winczek (University of Agriculture in Krakow)
11:00	12:30	<b>Dense Image Matching and Multi View Stereo in Urban Areas</b>	<b>prof. Fabio Remondino (FBK Trento)</b>
13:30	15:00	<b>Towards real-time UAV mapping</b>	<b>Francesco Nex (University of Twente)</b>
		<b>Session Change detection, environmental mapping</b>	<b>Michal Kačmařík (VŠB-TU Ostrava)</b>
15:15	15:35	Possibilities of Change Detection of Tree and Forest Attributes by Combining Terrestrial Laser Scanning Based 3D Point Clouds With UAV Data15	Ville Luoma (University of Helsinki)
15:35	15:55	Visual exposure of rock outcrops and surrounding forest stands development in Žďárské vrchy in view of historic material, landscape painting and remote sensing	Marie Balková (MENDELU)
15:55	16:15	Thinning proposal and skidding trails layout based on the UAV photogrammetry in Thailand	Zdeněk Patočka (MENDELU)

16:15	16:35	Integrating UAV Photogrammetry with Terrestrial Laser Scanning to Characterize Managed Forest Stands	Tuomas Yrttimaa (University of Eastern Finland / University of helsinki)
		<b>Session Technical/ infrastructural applications, regulation</b>	<b>Michal Kačmařík (VŠB-TU Ostrava)</b>
17:00	17:20	The Usage of UAV in the Transport of Oversized Cargoes	Jan Petrů (VŠB-TU Ostrava)
17:20	17:40	Using Low-cost Unmanned Air Vehicle (UAV) for Landslide Monitoring – Case Studies from the Moravian-Silesian Region, the Czech Republic	Jakub Seidl (VŠB-TU Ostrava)