



Wrocław  
University  
of Science  
and Technology



Department  
of Geodesy  
and Geoinformatics

29th International Scientific Conference SCEgeo 2022  
“Surveying, Civil Engineering and Geoinformation for Sustainable Development”

June 22-24, 2022  
Wrocław (hybrid), Poland



## FIRST DAY - JUNE 22, 2022 (WEDNESDAY) - H14 BUILDING

8:00-9:15



Registration of participants

9:15-9:30



Opening ceremony

9:30-10:15



Keynote speaker presentation - Prof. Bülent Bayram

*„Use of Deep Learning for Natural and Cultural Heritage Monitoring: A Case in Cappadocia”*

10:15-11:00



Keynote speaker presentation - Prof. Fabio Remondino

*“3D surveying and Geoinformation meets AI”*

11:00-11:30



Coffee break

11:30-12:15



Keynote speaker presentation - Prof. Chris Rizos

*“What MORE Can Geodesy Do for the Geosciences”*

12:15-13:00



Keynote speaker presentation - Prof. Åke Sivertun

*“New era in mapping and surveying with Unmanned Aerial Vehicles (UAV) – Flying autonomous and BVLOS”*

13:00-14:30



Lunch in the Student Culture Zone



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## FIRST DAY - JUNE 22, 2022 (WEDNESDAY) - H14 BUILDING

**14:30-16:00**



Conference session I - list of speakers

**14:30-14:45**

**Msc Aleksandra Dynowski (in person)** - *"Spatiotemporal analysis of vegetation condition in a glaciotectonic post-mining area"*

**14:45-15:00**

**Dr Jarosław Wajs (in person)**- *"Terrestrial laser scanning based sinkhole monitoring post mining area"*

**15:00-15:15**

**Prof. Nataliya Kablak (online)** - *"Analysis of research on the current geodynamic state of the Carpathian region"*

**15:15-15:30**

**Dr Krzysztof Karsznia (online)** - *"Functional assessment of using laser distance meters in the convergence studies of mine salt chambers"*

**15:30-15:45**

**Prof. Bertha Santos (online)** - *"Unmanned aerial vehicles (UAV) and geomatics in road pavement inspection: early developments"*

**15:45-16:00**

**Prof. Anatolii Vivat (online)** - *"Calculation of optimal values of measured lengths for accurate determination of length of small segments"*

**16:00-16:30**



Coffee break

**19:00**



Gala Dinner, social evening in the Student Culture Zone



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## SECOND DAY - JUNE 23, 2022 (THURSDAY) - H14 BUILDING

9:00-10:30



Special session I - POLSA

10:30-11:00



Coffee break

11:00-13:00



Special session II - AMICOS

Prof. Fabio Remondino, Dr Jacek Wodecki, Dr Jarosław Szrek, MSc Paweł Trybała - *“Innovative solutions for surveying and monitoring mining plants - the EIT-RM AMICOS project”*

13:00-14:30



Lunch in the Student Culture Zone

14:30-15:30



Conference session II - list of speakers

14:30-14:45

Prof. Kazimierz Bęcek (in person) - *“Some thoughts on cartography and geographic information systems”*

14:45-15:00

Dr Sławomir Łapiński (in person)- *“The multi-temporal point cloud registration method for monitoring the archaeological excavations”*

15:00-15:15

Prof. Janina Zaczek-Peplinska (in person) - *“The use of terrestrial TLS laser scanning to control deformation of tanks for liquid substances”*

15:15-15:30

Prof. Ireneusz Wyczałek (in person) - *“Research on the structural stability of the historic wooden church in Domachowo”*



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## SECOND DAY - JUNE 23, 2022 (THURSDAY) - H14 BUILDING

15:30-16:30



### Poster session

**Prof. Joanna Bac-Bronowicz, MSc Paulina Bidzińska, Dr Adam Górecki** - *“Geomorphological and soil-geological structure of the surface layer as a basis for determining permeability of soils in the Poznan area”*

**Prof. Jan Blachowski, Prof. Steinar Ellefmo** - *“Deformation monitoring in active mining area using open public data - preliminary results of a Scandinavian case study”*

**Dr Robert Gradka, Msc Wojciech Palej, Prof. Andrzej Kwinta** - *“Modelling of the shape of the free-hanging steel rope on the example of the “Polinka” gondola cable car in Wrocław”*

**Prof. Justyna Górniak-Zimroz, Dr Damian Kasza, Dr Joanna Krupa-Kurzynowska, MSc Paweł M. Trybała, Dr Jarosław Wajs** - *“Mobile scanning systems in the site inventory of operational mines - example of the Mikoszew and Strzelin granite mines”*

**Dr Damian Kasza, Dr Jarosław Wajs, Dr Aleksander Kowalski** - *“Application of mobile laser scanning for the assessment of slow-moving landslide activity – a case study from the Sudety mountains (Siedlęcín, SW Poland)”*

**Dr Zbigniew Muszyński, Dr Marek Wyjadłowski, MSc Paulina Kujawa, Dr Karolina Gorska** - *“Application of integrated geodetic and inclinometric measurements for monitoring reinforced concrete structures”*

**Prof. Michał Strach, BSc Marcelina Wilczyńska** - *“Analysis of the accuracy of the spatial model of the tower from photos taken by UAV supplemented by ground photos”*



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## SECOND DAY - JUNE 23, 2022 (THURSDAY) - H14 BUILDING

15:30-16:30



### Poster session

**Prof. Michał Strach, Dr Krzysztof Różanowski, MSc Jarosław Lewandowski, MSc Jerzy Pietrucha** -  
*“Analysis of the functionality of a mobile network of sensors in the construction investment supervision system based on unmanned aerial vehicles”*

**Dr Justyna Jasiołek, MSc Julia Kuchta** - *“Dynamics of changes taking place on the selected housing market in the face of the COVID-19 crisis”*

**Dr Jacek Sztubecki, Prof. Krzysztof Pawłowski, Prof. Maria Mrówczyńska** - *“The influence analysis of changing temperature conditions on building connectors deformations of the Bydgoszcz university of science and technology”*

16:30-17:00



### Coffee break

19:00



### Social evening at the Odra Centrum



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## THIRD DAY - JUNE 24, 2022 (FRIDAY) - L1 BUILDING

9:00-11:00



### Workshops

**Workshop No. 1** - *“ArcGIS Platform capabilities in detecting and analyzing changes using raster data”*,  
workshop instructor: Mr. Michał Domański, room 146

**Workshop No. 2** - *“Opracowanie wielkoskalowej mapy obiektowej w kontekście obowiązujących przepisów prawnych/Development of a large-scale object map in the context of applicable legal regulations”*,  
workshop instructor: dr Ewa Sudoł, room 051

11:00-11:30



**Closing ceremony** (room 260)

11:30-13:00



**Lunch in the Student Culture Zone**

13:00-16:00



**Guided tour of Wrocław**

16:00-16:30



**Cruise on the Odra River**