



University of Agriculture in Krakow, Department of Land management and Landscape Architecture –
consortium leader of an international research project

Artificial intelligence and geodata for sensibilisation of local communities for sustainable spatial development (GeoSen)

is pleased to present

INTERNATIONAL SCIENTIFIC CONFERENCE PROGRAMME

Location 1: URK Congress Center, al. 29 listopada 46, Krakow

- 9.00 – 9.30** **Registration**
- 9.30 – 10.00** **Official opening of the conference and guests' speeches**
- 10.00 – 11.00** **1st plenary session**
- 10.00 – 10.15 **Tomasz Salata** (URK, Poland)
Analysis of Sentinel-2 satellite imagery with artificial intelligence: from image to strategy in spatial planning
- 10.15 – 10.45 **Hans-Joachim Linke** (TUD, Germany)
Findings from the practice-oriented evaluation of interactive geodata to sensitize local planning authorities
- 10.45 – 11.00 **Józef Hernik, Anita Kukulska-Koziel, Katarzyna Cegielska** (URK, Poland)
A series of scientific publications developed as part of the GEOSSEN project: from macro- to micro-analysis
- 11.00 – 11.30** *coffee break*
- 11.30 – 12.30** **2nd plenary session**
- 11.30 – 11.45 **Markus Jobst** (Vienna University of Technology, Austria)
Approaching a future geospatial ecosystem as geospatial knowledge infrastructure - an ongoing discussion at the global level of United Nations
- 11.45 – 12.10 **Markus Huhn** (Coramaps, Germany)
Technical developments in satellite data analysis for the observation of rural areas
- 12.10 – 12.30 **Michał Wyczalek-Jagiello** (Geomatic, Poland)
New horizons in Urban Analytics: Artificial Intelligence and Super Resolution in Satellite Image Recognition
- 12.30-13.00** **Poster session**



13.00 – 14.00 3rd plenary session

13.00 – 13.15 **Abreham Berta Aneseyee** (Wolkite University/Consultant on SLM/NRM Interventions impact at Ministry of Agriculture in Ethiopia),
Eyasu Elias (Addis Ababa University/State Ministry of Agriculture in Ethiopia)
Sustainable Land Management Implemented in the last 20 years in Ethiopia to Achieve Sustainable Development Goals

13.15 – 13.30 **Selim Bayraktar** (İstanbul University-Cerrahpaşa, Turkey)
Exploring Analytical Tools for Analyzing Land Use Change Dynamics: Strengths and Limitations

13.30 – 13.45 **Mara Popescu** (George Emil Palade University of Medicine, Pharmacy, Science and Technology of Târgu-Mureş, Romania)
Digital investigation in cultural heritage research

13.45 – 14.00 **Csanády Gábor Mátyás** (Óbuda University, Hungary)
Architectural layers in our personality. Who you are as a house, what kind of building is in you

14.00 – 14.30 **Discussion panel:** Modern technologies supported by science as the future of public administration and sensibilization of local communities

14.30 – 15.30 **lunch**

15.45 - 16.30 **Bus ride to the second conference location**

Lokalizacja 2: URK campus, 253 Balicka St., Krakow

16.30 - 16.45 **Results of the international architecture contest**

„Concept for landscaping of the area at the Ostrozky-Lubomyrsky Castle in Dubno (Ukraine)” <https://kgpiak.urk.edu.pl/konkursy.html>

16.45 - 17.00 **Results of the international architecture contest and project exhibition**

“Development of public space near the church, parish house and presbytery for recreational purposes, Klaj municipality”

17.00 - 17.30 **Results of the E-BIP international architecture contest and project exhibition**

“EXCENTRIC LAB: Greenwall garden and green point for Balicka Campus” https://kgpiak.urk.edu.pl/erasmus_bip.html

17.30 **Barbecue**

List of posters:

- 1 Dawid Kudas, Agnieszka Wnęk, Přemysl Štych, Barbara Prus, Józef Hernik (URK, Poland; Charles University, Czech Republic): *Agricultural land loss after political transition - observations from Central Europe countries*
- 2 Piotr Bożek, Arkadiusz Doroż (URK, Poland): *Using GIS tools to detect changes in the structure development structure in rural areas*
- 3 Artur Wierzbicki, Anita Kukulska-Koziel (URK, Poland): *Transformations of greenery in the capitals of Polish voivodeships*
- 4 Łukasz Pólchłopek (URK, KZN, Poland): *Data sources and their integration for the National Real Estate Resource*
- 5 Tomasz Noszczyk, Julia Gorzelany, Anita Kukulska-Koziel (URK, Poland): *Urban green spaces - reflections for sustainable land management*
- 6 Agata Walczak (URK, Poland): *Mogila – rural landscape within the city Cracow. Spatial conflicts in the area of the former protection zone of the Nowa Huta ironworks*
- 7 Szczepan Budkowski (URK, Poland): *Stratified ownership in Poland*
- 8 Abreham Berta Aneseyee (Wolkite University, Ethiopia)Tomasz Noszczyk (URK, Poland): *Quantification Ecosystem Services in the Upper Omo Gibe Basin, South-Western Ethiopia*
- 9 Barbara Czesak, Maria Pazdan, Renata Różycka-Czas, Tomasz Salata (URK, Poland): *Measuring urban sprawl – spatial concentration index*
- 10 David Alfredo Montenegro (CONICET, Argentina; ÖAW, Austria): *Territorial Transformations and Land Use Changes in Tucuman, Argentina, between 1990 and 2022*
- 11 Hubert Małyszek, Kinga Piaseczna (URK, Poland): *Consumer-grade drone as a source of geodetic products - orthophotomap, DEM, 3D mesh model*
- 12 Kinga Piaseczna, Hubert Małyszczel (URK, Poland): *Inventory of Białoprądnicki Manor using UAV data and BIM technology*
- 13 Gabriela Kacik, Anna Kusyk, Aleksandra Rój, Natalia Saniawa (URK, Poland): *Multispectral imaging: A new era of water management in the fight against cyanobacterial blooms*
- 14 Martyna Michniak, Wiktoria Kamińska, Michał Glonek (URK, Poland): *The study aimed to explore the role of outdoor advertising in aesthetically valuable areas*
- 15 Wiktoria Rodzińska, Wiktoria Biskup, Rozalia Dutkiewicz (URK, Poland): *Using an unmanned aerial vehicle for 3D modelling of green areas in urban spaces*
- 16 Ülkü Rümeyisa Yayla, Agnieszka Bodek, Katarzyna Bielak, Marta Dimovska, Mälina Elena Lupu, Adina-Alexandra Tomoiagă (Istanbul University - Cerrahpaşa, Türkiye): *Excentric lab: Greenwall garden and green point for Balicka Campus*



- 17 Ela Şimal Kurtuluş, Jakub Parkita, Ana Dracea, Raluca Andreea, Eszter Horváth (Istanbul University - Cerrahpaşa, Türkiye): *Excentric lab: Greenwall garden and green point for Balicka Campus*
- 18 Mateusz Kowalski, Mateusz Rynkowski (Nicolaus Copernicus University in Toruń, Poland): *Resources and availability of green areas in Torun based on spatial analyses*
- 19 Natalia Antkowicz, Zuzanna Mucha, Gabriela Klaczak (URK, Poland): *Do Cracow students see their future in Cracow?*
- 20 Magdalena Żurawska (URK, Poland): *WebGIS: from paper maps to smart interactive maps*
- 21 Mateusz Rynkowski, Mateusz Kowalski (Nicolaus Copernicus University in Toruń, Poland): *Potential tram line through Rubinkowo in Toruń in Poland as a reason of spatial conflicts*
- 22 Max Popek, Stanisław Humienny (Nicolaus Copernicus University in Toruń, Poland): *Community gardens as a way to mitigate social conflicts: The example of Toruń*
- 23 Olga Mykhaylyshyn, Józef Hernik (National University of Water and Environmental Engineering, Ukraine; URK, Poland): *The issue of studying the architectural and spatial development of Ukrainian villages in the second half of the 20th century in the social context*
- 24 Stanisław Humienny, Max Popek (Nicolaus Copernicus University in Toruń, Poland): *Community gardens as a way to mitigate social conflicts: The example of Toruń*
- 25 Anna Adamska, Katarzyna Hodor, Barbara Olczak, Barbara Prus, Magdalena Wilkosz-Mamcarczyk, Magdalena Wiśniewska (URK, Poland; Cracow University of Technology, Poland): *The development of urban structure in contemporary cities: residential areas vs. green spaces. A case study of Krakow*
- 26 Katarzyna Cegielska, Tomasz Salata (URK, Poland): *A multimetric approach to anthropogenic pressure analyses: A tool for measuring and mapping the human impact on the landscape*

GE O S E N