



UNIVERSITY OF AGRICULTURE
IN KRAKOW

Geomatics, Landmanagement and Landscape

Scientific journal founded in 2012 at the University of Agriculture in Krakow



No. 2 • 2023
Krakow

Editor-in-Chief

Dr hab. inż. Andrzej Wałęga, prof. URK

Scientific Editor

Prof. dr hab. inż. Urszula Litwin

Editorial Board

Urszula Litwin (Krakow, Poland) – chair, Jacek M. Pijanowski (Krakow, Poland) – vice-chair,
Henryk Antoni Bryś (Krakow, Poland), Bohdan Cherkes (Lviv, Ukraine), Ryszard Cymerman (Olsztyn, Poland),
Oleksandr Dorozhynskyy (Lviv, Ukraine), Tadeusz Gargula (Krakow, Poland), Krzysztof Gawroński
(Krakow, Poland), Beata Hejmanowska (Krakow, Poland), Józef Hernik (Krakow, Poland), Volodymyr Hlotov
(Lviv, Ukraine), Oleg Iwanczuk (Lviv, Ukraine), Jarosław Janus (Krakow, Poland), Thomas Kersten
(Hamburg, Germany), Marko Komac (Ljubljana, Slovenia), Wiesław Kosek (Warsaw, Poland), Theo Kötter
(Bonn, Germany), Eckart Lange (Sheffield, UK), Pingsheng Leng (Beijing, China), Hans-Joachim Linke
(Darmstadt, Germany), Yun Liu (Beijing, China), Holger Magel (Munich, Germany), Zbigniew Piasek
(Krakow, Poland), Weidong Qu (Beijing, China), Walter Seher (Vienna, Austria),
Katarzyna Sobolewska-Mikulska (Warsaw, Poland), Gernot Stöglehner (Vienna, Austria),
Walter de Vries (Munich, Germany), Zofia Więckowicz (Wrocław, Poland), Franciszek Woch (Puławy, Poland)

Topic Editors

Geomatics: Andrzej Kwinta (University of Agriculture in Krakow)

Landmanagement: Jacek M. Pijanowski (University of Agriculture in Krakow)

Landscape: Julia Gorzelany (University of Agriculture in Krakow)

Statistics Editor: Agnieszka Bitner-Fiąlkowska (University of Agriculture in Krakow)

Secretary Editor: Halina Stachura

Open Acces Editor: Karol Król, Przemysław Klapa

Copy-editing, proof-reading, DTP: Publishing House of the University of Agriculture in Krakow

Supported by the Society for Rural Development

The issue contains peer-reviewed papers

Edition of the publications is financed from the fund of the Rector of the University of Agriculture and the fund
of the statutory activities of the Faculty of Environmental Engineering and Geodesy (UR) in Krakow

The journal indexed in the databases: BazTech, ARIANTA, AGRIS, CABI, AGORA, Index Copernicus, ERIH Plus

Copyright © Publishing House of the University of Agriculture in Krakow, Krakow 2023

ISSN 2300-1496



Publishing House of the University of Agriculture in Krakow

31-425 Krakow, al. 29 Listopada 46

Tel.: (+48) 12 662 51 57 or 12 662 51 59

E-mail: wydawnictwo@urk.edu.pl

wydawnictwo.ur.krakow.pl

E-mail: gll@urk.edu.pl

gll.urk.edu.pl

Editor sheets 7.00. Printing sheets 6.00. Issue 150 copies

CONTENTS

Foreword.....	5
<i>Maou Zakarya, Ahmed Bougherara, Yahyaoui Habibi</i>	
Sustainability of a hydraulic facility and flood risk of its downstream section: The case of the Foum El-Gherza Dam (Zibán East, Algeria).....	7
<i>Arkadiusz Doroż, Michał Rymarczyk, Piotr Bożek</i>	
Using maps of the former Austrian cadastre on the scale of 1:2880 to analyse the data in the land and building registry.....	23
<i>Nour El Houda Gueraidia, Saida Gueraidia, Chemseddine Fehdi</i>	
SAR Interferometry for landslide investigation and surface deformation monitoring: a case study of Souk Ahras area, North-East of Algeria.....	37
<i>Eryk Klemiński, Damian Kasza</i>	
Terrestrial laser scanning in inventory control of wildlife in a Municipal Park in Wrocław	57
<i>Joanna Rajca, Barbara Olczak, Magdalena Wilkosz-Mamcarczyk</i>	
Urban adaptation to climate change and resident awareness. A Polish perspective	81
<i>Karol Król</i>	
The reach and the trends in the use of the map service for the local spatial development plan of Tomice municipality	91