

FOREWORD

We are presenting you with the latest issue of the Geomatics, Landmanagement and Landscape journal, containing a thematic variety of scientific papers. The first article deals with the issue of geodetic base maps used by organizers of sport competitions and bicycle marathons. The second article concerns positive socio-economic changes in rural areas resulting from the implementation of agricultural land consolidations, as illustrated with the example of rural municipalities of the Małopolska region. The next article presents the results of research into the selection of suitable sites for future industrial zones in the province of Constantine in Algeria, applying the geographical information system (GIS) and remote sensing. The fourth article presents the results of research on the impact of environmental factors, which have their sources in the past, on the current development of a smart city – as illustrated with the example of Kraków. The next article follows the evolution of web maps from Web 1.0 to Web 6.0 where we will deal with the migration of human consciousness to cyberspace or an indefinite “data cloud”. The sixth article concerns the techniques of publishing maps in web browsers using GIS systems, and it goes on to present the results of research into measuring the impact of minification on the performance of the map component. Articles seven and eight deal with land consolidation. The seventh article presents the results of research aiming to identify spatial and technical parameters of agricultural land in a ribbon development system, in the context of the selection of appropriate factors describing a given area in terms of determining the urgency of undertaking land consolidation and exchange projects. Article eight attempts to determine the factors describing the localities considered for consolidation, in order to develop a ranking order of the consolidation works.

The next article deals with the topic of reference stations (CORS) of the global navigation satellite system (GNSS) in the context of three-dimensional (3D) positioning accuracy. The research results were based on data from the University of Lagos station from the years 2016–2018. The tenth article presents the results of research aimed at inventorying the power grid with the aid of UAV (unmanned aerial vehicles), and applying detection technology using images in various ranges of the electromagnetic spectrum. The next two articles relate to selected problems of valuation of real estate built contrary to the provisions of the construction law – the first deals with the concept of illegal construction (undertaken without a building permit), while the second presents the analysis of the impact of a building permit on the price of real

estate and discusses the scope of the property appraiser's obligation to examine the compliance of the valued property with building regulations. The last article concerns new functionalities of the GIS application related to the integration of the water supply and sewage network model with other software applications used in the management of a given city. The resulting application should not only allow for spatial identification of network sections, but it also should facilitate simulation of various operating conditions of the water supply and sewage collection system.

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