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31-425 Krakow, al. 29 Listopada 46

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

E-mail: wydawnictwo@ur.krakow.pl

www.wydawnictwo.ur.krakow.pl

E-mail: gll@ur.krakow.pl

www.gll.ur.krakow.pl

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FOREWORD

In this edition of the *Geomatics, Landmanagement and Landscape* quarterly, the opening issue of the year 2017, we bring you eleven papers.

The first relates to the applications of cartographic and statistical methods in the analysis of the local real estate market. The town of Rabka-Zdrój was chosen as the object of the study, with its database of undeveloped land properties, subject to real estate trading between 2010–2015. The second article presents the possibilities for the application of artificial linear neural networks in real estate valuation. Both papers share the common Keywords of real estate market and property valuation. In the next article, authors discuss the problem of edge effect, and its impact on the accuracy of 2D and 3D modelling using laser scanning. They show sample renditions of the test object. The subject of the fourth article is the analysis of selected factors pertaining to the spatial structure of rural areas in the villages of central Poland. The study, conducted in the fourteen villages of the Białaczów municipality, encompassed the property structure, land use, and land fragmentation of individual agricultural holdings located therein. The calculated rate of fragmentation for each precinct led the authors to distinguish 4 types of villages. Fragmentation can be regarded as a criterion for determining the sequence of villages where work should be prioritized, aimed at the consolidation and exchange of land. The goal of the next study was to evaluate the insolation potential of land plots in the village of Łazy, in the municipality of Jerzmanowice-Przebinia, in terms of suitability for the construction of solar power plants. The authors have carried out the modelling of insolation and spatial analysis, using the ArcMap 10.3.1 and QGIS 2.8.1. Wien software. The end result of the study is presented in the form of maps, showing the most suitable land for investing in solar technologies. In the sixth article, Professor Magel from Germany raises the problem of the territorial justice for urban and rural regions, as well as the responsibility and role of the Bavarian Academy for Rural Areas in this regard. He presents the problem of the urbanization of countryside, in the context of the lack of discussion about the future comprehensive vision and strategy for rural areas. He states that Germany and Europe still believe in the principle of cohesion, and in the objectives of the Territorial Agenda 2020. The seventh paper presents proposals for a security model to protect cadastral information, which is recorded in the real estate databases in Poland. The model was developed for the implementation of tasks pertaining to multipurpose cadastre. In the next article, authors discuss the results of a research project carried out by the Terramap Sp. o.o. company, the result

of which is a measuring device used for 3D digitization, allowing for data acquisition and processing. A characteristic feature of the system is the automatic acquisition of information, both about the object geometry (spatial digitization) and colour information in the RGB colour space of the object (with high-resolution digital photos). In the ninth article, the author from China presents the historical process behind the Chinese land reform. He distinguishes three stages in the economic development of China. First is the land reform associated with the reform of state-owned enterprises. The second is related to the reform of the reconstruction system, and the third, to the reform of the spatial system for rural areas, in relation to the current process of urbanization. The author of the tenth paper in this issue writes about proposed modifications to the typology of the division of rural areas in Poland, based on the OECD standard and EUROSTAT typologies. The eleventh article presents the research procedure for determining the potential effectiveness of fire fighters in the city of Łódź, and in the areas surrounding the city within a 20-kilometer ring. In conclusion, the author states that the use of the Analyst ArcMap network tools and the 2SFCA method makes it possible to determine the timely availability of fire fighters in case of various threats.

*Dr hab. inż. Wojciech Przegon, prof. UR
Faculty of Environmental Engineering and Land Surveying
University of Agriculture in Krakow*