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GLL *Geomatics,
Landmanagement
and Landscape*

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FOREWORD

This 2018 GLL journal contains five research papers, thematically related to the application of selected statistical tests in height measurements.

The first paper presents a comparison between three selected tests (L'Abbe's, Kolmogorov's, and Kuiper's), used to check the normality of the distribution of measurement errors in precise levelling. The compared tests have shown normality, rather than regularity, in the distribution of errors.

The next research paper presents the economic, environmental and landscape problems, as illustrated with the example of Krakow, using state-of-the-art "Smart City" program as the basic element of urban development and urbanization. The results of the analysis did not fully confirm whether the aforementioned program applies in Polish context.

The third paper discusses the problems of determining the shape of the terrain, regarding measurement procedures, firstly, as real data, and secondly, in terms of presenting activities related to the transformation of results, in order to obtain imaging. In this publication, out of numerous interpolation methods, four approaches were selected for presentation: Global Polynomial, Inverse Distance, Radial Basis Function and Kriging, followed by the comparison of their application.

In the fourth paper, the authors have shown the correlations between socio-economic development and the number of planning decisions issued, as illustrated with the example of Przeclaw municipality in 2010–2016. The analysis was performed using Hellwig's method of taxonomic measure. It was demonstrated that the level of socio-economic development is primarily dependent on the infrastructure, recreational function, and location of the municipality.

Authors of the last research paper presented the results of situational measurements of six points in the test grid in two-dimensional space. Measurements were made using eight selected smartphone applications, and one of them produced results that qualified in error theory as errors of gross type.

All of the works in the present issue of the journal are highly interesting in terms of content, and all five concern engineering geodesy.

*Professor Urszula Litwin
Scientific Editor of "Geomatics, Landmanagement and Landscape" journal*