

## **COMPLEX INVESTIGATION OF LANDSLIDE MASSIFS IN BULGARIA**

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Bulgaria is situated in the north-eastern part of the Balkan Peninsula. Its territory amounts to 110 000 km<sup>2</sup> and is characterised by complex tectonic and geological structure. Almost all types of hazardous geological processes are displayed to a different extent on this territory. The landslides have a considerable distribution and are especially pronounced along the Northern Black Sea coast. New active contemporary landslides emerge on top of ancient landslide cirques. The present paper considers the complex of methods used for the investigation of a landslide massif situated in the north-eastern part of the Bulgarian Black Sea coast, affecting densely populated resort region. The construction fund and the infrastructure are built on top of an ancient landslide massif with a total area of 8640 decares. Single landslides with an area of 150 decares were activated within the frameworks of this ancient massif. The causes provoking the activation of the landslide massif have been considered. Data from borehole and geophysical investigations, as well as data from the regime observations of surface and in-depth benchmarks (inclinometers) are used in order to determine the depth and form of the sliding surface. The safety coefficient of the landslide massif has been determined and its condition has been analysed. Recommendations are made for the design of a complex of landslide prevention activities.