

# Deformation Monitoring of Objects of the Gabčíkovo Dam by the Terrestrial Surveying Methods and GPS Methods

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**Key words:**

## ABSTRACT

The monitoring of the biggest Danube Gabčíkovo Water-work has been carried out by new geodetic procedures since 1996. The combination of modern terrestrial and GPS technology required new methodology for the determination of parameters of the displacement monitoring network. The deterministic and stochastic models data processing lead to new measurement procedures for GPS and automated tacheometric systems. Beside an overview of results of monitoring the Diversion Canal we discussed some details of automatic monitoring of the dam gate locks by a pair of integrated geodetic systems Leica TCA 1800.

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