

## عنوان مقاله:

ROAD DATA INFORMATION SYSTEM; BUDAPEST CASE STUDY

## محل انتشار:

مجله بهینه سازی در مهندسی عمران، دوره 9، شماره 4 (سال: 1398)

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## خلاصه مقاله:

Budapest Közút is developing ROad Data Information System based on mobile laser scanning since ۲۰۱۳. All public roads (cca. ۵۰۰۰ km) are surveyed by MLS (Riegl VMX۴۵۰) in survey grade accuracy and all visible road assets has been digitized and loaded to a complex ۳D GIS environment. Since the first full coverage had been done in ۲۰۱۴ the whole city has also been updated - being one of the few large infrastructure in the World that has not one but multiple high accuracy ۳D data for the whole network. The high level accuracy, the full coverage and the already available data updates allows Budapest to use the ۳D data for multiple operational applications - from traffic- and road design to planning, from assets management to traffic safety analyst and municipality activities. One of the most cutting-edge applications is the road surface analyst over time that allows the road management company to analyze and optimize different construction methods and is changes over the years. One example for road quality analyst is the application of data support for PMS (Pavement Management System) how keeps this new component the road surface quality ?well

## کلمات کلیدی:

mobile laser scanning (MLS), pavement management system (PMS), ۳D data, point clouds, optimized pavement maintenance.

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1831232>

