NOVEL BRIDGE MANAGEMENT SYSTEM FOR SLOVENIAN ROAD NETWORK

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Abstract:

The trend in the developed countries road infrastructure is shifting from construction to maintenance management. Bridges are critical components of the road infrastructure as they facilitate transportation. The posting/failure of bridges lead to detours, causing increased travel times and travel distances or even casualties.

Maintaining the adequate quality of bridge fund in economically efficient and socially acceptable manner is the fundamental task/challenge of road authorities.

To optimize the use of financial resources a comprehensive management system is required.

The newly developed Slovenian Bridge management system considers multiple aspects (safety, reliability, availability) to determine individual bridge performance.

To optimize the use of financial resources, the maintenance costs have to be dealt on the network level where numerous maintenance strategies can be compared.

The theme deals with Slovenian Bridge management system based on COST Action TU1406 findings and national road authority’s needs.

Although COST Action TU1406 “Quality specification for roadway bridges, standardization at a European level” is still in progress, its practical use is already confirmed.

Keywords:
bridges, bridge management; performance indicators; maintenance planning;

Graphics: