Proactive Bridge Assessment for Sustainable Maintenance of Roadway Infrastructure

Andrej Anžlin

Slovenian National Building and Civil Engineering Institute

Abstract

A novel approach to predictive maintenance of bridges, using advanced analytics to tackle the challenges of aging infrastructure and increasing traffic demands, will be presented. The focus will be on utilizing diverse data sources, including structural health monitoring and weigh-in-motion data, to derive actionable insights for bridge management. This approach will be supported by case studies from recent projects undertaken by the Section for Bridges at the Department of Structures, Slovenian National Building and Civil Engineering Institute in Ljubljana.