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Call for papers for the Joint COST TU1402 - COST TU1406 – IABSE WC1 Workshop

The Value of Structural Health Monitoring for the reliable Bridge Management

The Joint workshop of COST Action TU 1402 “Quantifying the value of structural health monitoring”, COST Action TU 1406 “Quality specifications for roadway bridges, standardization at a European level” and IABSE Working Commission WC1 “Structural Performance, Safety and Analysis” of the International Association for Bridge and Structural Engineering, will be held in:

Zagreb, Croatia, at the Faculty of Civil Engineering on 2nd and 3rd of March 2017.

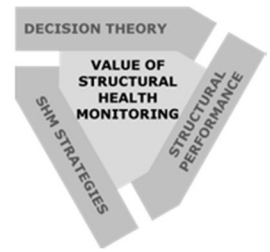
So far, within the COST Action TU 1406, the focus was on screening process of existing European documents, establishing a database for Performance Indicators and on defining the technical and non-technical bridge performance goals, followed by the establishment of Quality Control Plans for Bridges. The focus of the COST Action TU 1402 was development on Fact Sheets on theoretical framework of decision analysis and value of information theory, SHM categorisation and information modelling platform and associated methods and tools involved in the value of information process. IABSE WC1, as a commission dedicated to the problems related to structural performance, safety and life-cycle cost, has set up the Performance of existing structures as one of its focus areas within activity planning.

The long-term objective of this workshop is to contribute jointly to the improvement of the bridge management leading to satisfied users and bridge operators, and sustainable development of European road network. More specific objective is to reveal the value of using sophisticated methods of collecting, updating and processing data and subsequently their inclusion in the probabilistic-based reliability analysis.

Therefore, we would like to invite authors with different backgrounds and targeted knowledge to submit short papers related to the following topics:

COST Action TU 1406 - Performance assessment of existing Bridges for their reliable management

This session will incorporate the main achievements from COST Action TU 1406, with a focus on performance assessment of existing bridges, the establishment of performance goals and the development of quality control plans. The aim is also to integrate such topics into existing deterministic and probabilistic-based frameworks for the efficient management of a single and a network of bridges.



COST TU1402 Framework, Strategies and Tools towards the Quantification of the Value of Structural Health Monitoring

Contributions of high relevance for the quantification of the Value of Structural Health Monitoring in the fields of structural performance and integrity management modelling, SHM strategies and methods and tools are very welcome. The contributions should also provide ideas of how to cooperate with COST TU1406 activities and key performance indicators.

IABSE WC1 - Management and Performance-assessment of Existing Structures

Presentation of contributions related to improved existing performance assessment methods within bridge management systems - for example linear and nonlinear analysis methods, semi and full probabilistic based assessment methods, treatment of uncertainties, Bayesian updating. The presentations can serve as basis for creating procedures applicable in practice based on recent scientific achievements.

The proposed manuscripts should be developed with the **Joint Workshop paper template** available at the <http://www.grad.unizg.hr/joint-zagreb-workshop> and submitted to joint-zagreb-workshop@grad.hr. Please indicate corresponding author and adequate topic for your paper.

Authors of selected excellent papers will be invited to do oral presentations of their work, being their travel expenditures reimbursed by COST, according to the rules which are explicit in VADEMECUM (reimbursement is only applied for authors from COST Countries).

The deadline for submission is November 20, 2016.

Sebastian Thöns, COST TU 1402 chair
Jose Matos, COST TU 1406 chair
Niels Peter Høj, IABSE WC1 Vice chair
Ana Mandić Ivanković, Local Organisers chair

