

Risk, resilience and sustainability informed integrity management of infrastructure systems

Risk-informed approaches for optimizing inspection and maintenance planning of structures and infrastructure systems

Speaker: Prof. Daniel Straub, Technical University of Munich

Host: Dr. Jianjun Qin, Shanghai Jiao Tong University

Time: 15th November 2022, 15:00 – 16:00 Central European Time

Lecture outline:

The first part of the lecture will introduce the opportunities and challenges associated with risk-informed inspection and maintenance (I&M) planning in engineering systems. The second part of the lecture will present in some details a simple but comprehensive approach for optimal (I&M) planning. This is followed by selected applications of I&M planning based on recent research.

About the speaker:

Daniel Straub is Associate Professor for engineering risk and reliability analysis at TU München. His interest is in developing physics-based stochastic models and methods for the decision support and safety analysis of engineering systems, with a particular focus on Bayesian techniques. Daniel obtained his Dipl.-Ing. degree in civil engineering in 2000 and his PhD in 2004 from ETH Zürich and consequently was a postdoc and adjunct faculty at UC Berkeley, before joining TU München in 2009. He is also frequently active as a consultant to the industry on reliability and risk assessments and decision making under uncertainty. His awards include the ETH Silbermedaille, the Early Achievement Research Award of IASSAR and the SAE Ralph H. Isbrandt Automotive Safety Engineering Award.



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