Editorial

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There are five very interesting papers presented in this issue. All focus on asset management covering varied infrastructure types: roads, railways, bridges, sewer pipes and liquefied natural gas (LNG) plants.

Optimisation of pavement maintenance has always been an important consideration in getting the best value for money. Road pavements are to be maintained at an agreed level of service to the satisfaction of the road users. The first paper by Ramachandran and Amirthalingam (2020) uses regression models that utilise transition probability matrices for pavement distress and treatment effectiveness. In this approach the methodology is implemented in a Microsoft Excel spreadsheet and optimised using Excel Solver.

The second paper (Algaard and Lines, 2020) presents a case study on railway infrastructure portfolio management. It emphasises the need for a proper delivery plan and robust testing. The authors present a solution based on the need to maintain and renew the railway network strategy to deliver a safe, reliable and sustainable network to the end users. The authors state that this approach has prompted better communication in the organisation and more control and oversight in the delivery.

The third paper by Dromey *et al.* (2020) presents a bridge-rehabilitation strategy based on the analysis of a bridge-inspection data set. This paper identifies a need for a network-level bridge-rehabilitation investment strategy and presents a decision-support system at the network level. It provides a project-prioritising procedure and proposes an overall concept of system performance leading to annual rehabilitation strategy for the bridge network.

The fourth paper (Zeb, 2020) provides an ontology of condition assessment technologies for sewer networks. It emphasises the need for effective asset management of sewer collection systems. It develops an ontology of condition assessment that can be used to develop applications for the selection of the most appropriate technology for sewer condition assessment.

The final paper (Love *et al.*, 2020) presents a digital information model for future-proofing asset information in LNG plants. In LNG plants, shut-down periods get extended due to errors and omissions in the as-built instrumentation and control systems. The research presents a novel digital system information model that can be used to improve the robustness of an LNG operator's asset information management system.

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