

Liu and Frangopol Awarded With Reese Prize

BY Staff

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ASCE has honored the writing team of **Yan Liu**, Ph.D., and **Dan M. Frangopol**, Sc.D., P.E., Dist.M.ASCE, with the 2020 **Raymond C. Reese Research Prize** for their paper “Utility and Information Analysis for Optimum Inspection of Fatigue-Sensitive Structures,” published in the February 2019 issue of the Journal of Structural Engineering.

This paper makes a significant contribution to the design of an optimum decision-making framework that schedules future structural inspections on the basis of achieving maximum information utility to decision-makers. Decision-makers may have different preferences and attitudes toward obtaining inspection information at certain points in the service life of fatigue-sensitive structures. In the nominated paper, the authors adopt the utility concept applied to inspection information for decision-making purposes in order to achieve the best-informed decision. Probabilistic inspection detectability affected by different inspection methods is synthesized into a time-variant utility analysis model.

The Raymond C. Reese Research Prize is awarded to the author or authors of a paper that describes a notable achievement in research related to structural engineering.

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