

GUEST EDITORIAL

Special Issue on “Fatigue Performance of Steel and Composites Bridges”

This special issue comprises extended and revised versions of papers selected from those presented at the First International Conference on Performance-based and Life-cycle Structural Engineering (PLSE 2012), which was held on 5-7 December 2012 in Hong Kong, China. PLSE2012 was co-organized by the Faculty of Construction and Environment (FCE) and Research Institute for Sustainable Urban Development (RISUD) of The Hong Kong Polytechnic University (PolyU). It was the first conference of a series to provide an international platform for scientific exchanges and international cooperation in the areas of performance-based structural engineering and life structural engineering for a wide range of structures, such as buildings, bridges and offshore platforms.

The conference program consisted of about 230 presentations, including 9 Keynote Lectures and 34 Invited Lectures. Eleven mini-symposia were also organized as part of the conference. As one of the six special issues that have arisen from PLSE2012, this special issue is focused on “Fatigue Performance of Steel and Composite Bridges”. In addition to 10 papers selected from the mini-symposium “Service Life Evaluation and Extension of Existing Bridges” organized during PLSE 2012, two more papers were invited from Professor John W Fisher at Lehigh University and Professor Eugen Bruhwiler at Swiss Federal Institute of Technology in Lausanne to form this special issue.

As the Guest Editors of this special issue, we would like to acknowledge the contributions of many individuals to the successful compilation of this special issue. In particular, we would like to thank all the authors for their careful preparation of the papers and the reviewers for their high-quality reviews. We also would like to sincerely thank Professor Siu-Lai Chan, Editor-in-Chief of the Journal of Advanced Steel Construction, for his kind support during the development of this special issue.

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