Australian Experiences in Monitoring of Civil Structures - Preface

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1 Preface

As the *Journal of Civil Structural Health Monitoring* is an important platform for the SHM researchers to exchange their ideas and developments in the field, we organise this special issue and invite Australian experts to submit papers relating to SHM in civil engineering. After a rigorous peer-review and revision process, five papers are accepted and to be included in this special issue.

The five papers appearing in this special issue address a wealth of topics relevant to structural health monitoring in civil engineering. It aims to showcase the Australian experience in this area. It discusses the experience for monitoring the Sydney Harbour bridge using the machine learning approaches and for evaluating the load capacity of in-service utility timber poles in Australia, a substructural technique for the interface force identification with limited measurements, the use of appropriate sensor arrangement

to separate longitudinal and flexural waves for non-destructive evaluation, and the lamb wave-based monitoring technique for isotropic plates. The fruits of Australian researchers' efforts, these results, and achievements make a seminal contribution to the worldwide advances in the field of structural health monitoring.

As the guest editors of this special issue, we would like to thank the authors who willingly submitted their high-quality work to realise this special issue. Likewise, the great help of the reviewers is also appreciated, and their careful observations, valuable comments and suggestions contributed significantly to improve the content of this special issue. Finally, we would like to express our sincere gratitude to Prof. Farhad Ansari, the Editor-in-Chief of the *Journal of Civil Structural Health Monitoring* for his encouragement, which was indispensable in putting together this special issue.

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