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Next generation steel and composite infrastructure

In this paper, steel and composite infrastructure are proposed as providing the most attractive opportunities in next generation infrastructure that promotes both demountability and structural health monitoring (SHM). This paper will provide an initial insight into the approaches that could be potentially used to ensure that SHM is further developed for next generation infrastructure. The paper will address what types of devices and information will need to be collected and how these can be integrated in building information models (BIM) or project information models (PIM).

Biography

Brian Uy is Professor of Structural Engineering and Director of the Centre for Infrastructure Engineering and Safety (CIES) in the School of Civil and Environmental Engineering at The University of New South Wales in 2013. He has co-authored over 600 publications including over 150 journal articles. He has delivered 250 conference papers in 35 countries, including 50 keynote/invited lectures in 15 countries and has been involved in research in steel and composite structures for 20 years. He is Chairman of the Standards Australia Committee BD32 on Composite Structures. He has been the Chairman of the Australia Regional Group of the Institution of Structural Engineers since 2012 and the Chairman of the Australia Group of the International Association for Bridge and Structural Engineering (IABSE) since 2015. He is Chief Editor (Asia-Pacific) for Steel and Composite Structures. He currently serves on the American Institute of Steel Construction (AISC) Task Committee 5 on Composite Construction.

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