

# Spotlight on Structures

Research Journal of The Institution of Structural Engineers

In this section we shine a spotlight on papers recently published in *Structures* – the Research Journal of The Institution of Structural Engineers.

*Structures* is a collaboration between the Institution and Elsevier, publishing internationally-leading research across the full breadth of structural engineering which will benefit from wide readership by academics and practitioners.

Access to *Structures* is free to Institution members (excluding Student members) as one of their membership benefits, with access provided via the “My account” section of the Institution website. The journal is available online at: [www.structuresjournal.org](http://www.structuresjournal.org)

## Structures prizes

Congratulations to the winners of the annual *Structures* prizes, which recognise outstanding examples of pure and applied research. The prizes, for papers published in the journal during 2016, were announced at the Institution's People and Papers Awards ceremony in London on 8 June and were awarded as follows:

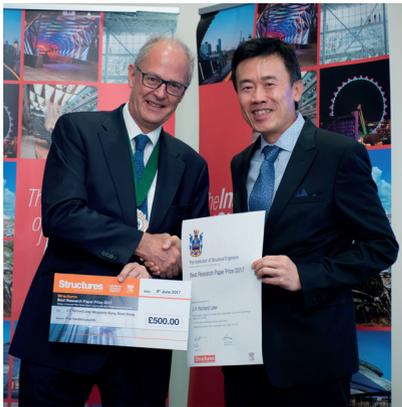
### Best Research Paper Prize

#### Design of Concrete Filled Tubular Beam-columns with High Strength Steel and Concrete

*J.Y. Richard Liew, Mingxiang Xiong and Dexin Xiong, Department of Civil & Environmental Engineering, National University of Singapore, Singapore*

Volume 8, Part 2, November 2016, pages 213–226

[www.sciencedirect.com/science/article/pii/S2352012416300261](http://www.sciencedirect.com/science/article/pii/S2352012416300261)



### Best Research into Practice Paper Prize

#### Partial safety factor for reinforcement

*Andrew Beeby<sup>a</sup> and Paul Jackson<sup>b</sup>*  
<sup>a</sup>Formerly University of Leeds, UK

<sup>b</sup>Ramboll UK, Southampton, UK

Volume 5, February 2016, pages 101–111

[www.sciencedirect.com/science/article/pii/S2352012415001034](http://www.sciencedirect.com/science/article/pii/S2352012415001034)



### Construction aerodynamics of cable-stayed bridges for record spans: Stonecutters Bridge

*S.H. Robin Sham<sup>a</sup> and Tom A. Wyatt<sup>b</sup>*

<sup>a</sup>Global Long Span and Specialty Bridge Director, AECOM, USA

<sup>b</sup>Imperial College London, UK

Volume 8, Part 1, November 2016, pages 94–110

[www.sciencedirect.com/science/article/pii/S2352012416300686](http://www.sciencedirect.com/science/article/pii/S2352012416300686)

The winning papers will be free to access online for the next three months.

The *Structures* prizes are judged by the Institution's Research Panel, and sponsored by Elsevier. Each prize carries an award of £500.

## Articles in press

The following articles have recently been made available online:

### Experimental Assessment of Retrofitted RC Frames With Different Steel Braces

*Mehrzad Tahamouli Roudsari<sup>a</sup>, Alireza Entezari<sup>b</sup>, Mohammad Hessem Hadidi<sup>a</sup> and Omid Gandomian<sup>a</sup>*

<sup>a</sup>Department of Civil Engineering, Kermanshah Branch, Islamic Azad University, Kermanshah, Iran

<sup>b</sup>Department of Civil Engineering, Saveh Branch, Islamic Azad University, Saveh, Iran

<https://doi.org/10.1016/j.istruc.2017.06.003>

### Assessment of analytical formulations for the ULS resistance verification of structural glass elements accounting for the effects of different load durations

*Chiara Bedon and Claudio Amadio, University of Trieste, Department of Engineering and Architecture, Trieste, Italy*

<https://doi.org/10.1016/j.istruc.2017.06.002>

### Lateral Torsional Buckling Behaviour of Steel Beams – On the Influence of the Structural System

*Rebekka Winkler, Rolf Kindmann and Markus Knobloch, Institute of Steel, Lightweight and Composite Structures, Ruhr-Universität Bochum, Bochum, Germany*

<https://doi.org/10.1016/j.istruc.2017.05.007>

### Behaviour of Small Diameter Steel Tubes Under Axial Compression

*Faez Alhussainy, M. Neaz Sheikh and Muhammad N.S. Hadi, School of Civil, Mining, and Environmental Engineering, University of Wollongong, Australia*

<https://doi.org/10.1016/j.istruc.2017.05.006>