

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

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Articles in press

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The following articles have recently been made available online:

Article title	Authors	Available at:
Experimental and Numerical Studies on Efficiency of Hybrid Overlay and Near Surface Mounted FRP Strengthening of Precracked Hollow Core Slabs	Pradeep Kankeri, S. Suriya Prakash, Sameer Kumar Sarma Pachalla	https://doi.org/10.1016/j.istruc.2018.05.003
Behaviour of Single Angle Connections Under Simultaneous Shear, Tension and Moment	Hossein Daneshvar, Robert G. Driver	https://doi.org/10.1016/j.istruc.2018.05.005
Static and Dynamic Stability of a Multi- stepped Timoshenko Column Including Self-weight	A. Felipe Uribe-Henao, David G. Zapata- Medina, Luis G. Arboleda-Monsalve, J. Dario Aristizabal-Ochoa	https://doi.org/10.1016/j.istruc.2018.05.004
Comparison of Safety Factor Evaluation Methods for Flexural Buckling of HSS Welded Box Section Columns	B. Kövesdi, B. Somodi	https://doi.org/10.1016/j.istruc.2018.05.006
An Analytical Failure Envelope for the Design of Textile Reinforced Concrete Shells	Will Hawkins, John Orr, Tim Ibell, Paul Shepherd	https://doi.org/10.1016/j.istruc.2018.06.001
Full-scale Experimental Pushover Testing of an Existing URM Building	L.S. Hogan, I. Giongo, K.Q. Walsh, J.M. Ingham, D. Dizhur	https://doi.org/10.1016/j.istruc.2018.04.007
Evaluation of Self-Compacting Concrete Columns Reinforced with Steel and FRP Bars with Different Strengthening Techniques	Ahmed Hassan, Fouad Khairallah, Hala Mamdouh, Mahmoud Kamal	https://doi.org/10.1016/j.istruc.2018.06.003
Advanced Finite Element Simulation of Ductile Structural Steel Incorporating a Crack Growth Model	M.S. Hassan, S. Salawdeh, J. Goggins	https://doi.org/10.1016/j.istruc.2018.06.002
Seismic Structural Assessment of the Christchurch Catholic Basilica, New Zealand	Luís C. Silva, Nuno Mendes, Paulo B. Lourenço, Jason Ingham	https://doi.org/10.1016/j.istruc.2018.06.004
Influence of the Location of CFRP Strips on the Behaviour of Partially Wrapped Square Reinforced Concrete Columns under Axial Compression	Anh Duc Mai, M. Neaz Sheikh, Muhammad N.S. Hadi	https://doi.org/10.1016/j.istruc.2018.06.007
Experimental Testing and Numerical Analysis of a Barrel Vault	Mariella Diaferio, Marilena Venerito, Michele Vitti	https://doi.org/10.1016/j.istruc.2018.06.005
Rehabilitation of Corroded Steel Beams Using BFRP Fabric	Sahan Jayasuriya, Amirezza Bastani, Sara Kenno, Tirupati Bolisetti, Sreekanta Das	https://doi.org/10.1016/j.istruc.2018.06.006
Headed Bar Connections Between Precast Concrete Elements: Design Recommendations and Practical Applications	Jean Paul Vella, Robert L. Vollum, Raj Kotecha	https://doi.org/10.1016/j.istruc.2018.06.008
Slender Roof Structures - Failure Reviews and a Qualitative Survey of Experienced Structural Engineers	Anders Klasson, Ivar Björnsson, Roberto Crocetti, Eva Frühwald Hansson	https://doi.org/10.1016/j.istruc.2018.06.009