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.

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Articles in press

The following articles have recently been made available online:

Article title	Authors	Available at:
Tailored Buckling Constrained by Adjacent Members	Lawrence Virgin	https://doi.org/10.1016/j.istruc.2018.08.005
Vibration-based Structural Damage Detection Using Twin Gaussian Process (TGP)	Saeid Talaei, Ali Beitollahi, Saeid Moshirabadi and Milad Fallahian	https://doi.org/10.1016/j.istruc.2018.08.006
Novel digitally-manufactured wooden beams for vibration reduction	C. Málaga-Chuquitaype and J. Ilkanaev	https://doi.org/10.1016/j.istruc.2018.08.003
Estimate of Peak Relative Velocity from Conventional Spectral Velocity for Response Spectrum Based Force Evaluation in Damping Devices	Ravindra Desai and Shrirang Tande	https://doi.org/10.1016/j.istruc.2018.07.014
Probabilistic Safety Analysis of Prestressed Concrete Beams Failing Due to Web- crushing	Oladimeji Benedict Olalusi and John T. Kolawole	https://doi.org/10.1016/j.istruc.2018.08.004
Experimental and Numerical Investigation of the Buckling Performance of Tubular Glass Columns under Compression	Mohd Khairul Kamarudin, Mustafasanie M. Yusoff, Peter Disney and Gerard A.R. Parke	https://doi.org/10.1016/j.istruc.2018.08.002
An Insight into Structural Design against Deflection	Tianjian Ji and Lee S. Cunningham	https://doi.org/10.1016/j.istruc.2018.08.001
Validation of Temperature Simulations in a Portal Frame Bridge	Erik Gottsäter, Oskar Larsson Ivanov, Miklós Molnár and Mario Plos	https://doi.org/10.1016/j.istruc.2018.07.007
A GIS System Integrated with Earthquake Vulnerability Assessment of RC Building	M.C. Ningthoujam and Radhikesh P. Nanda	https://doi.org/10.1016/j.istruc.2018.07.013
Performance of Fiber-reinforced Self- consolidating Concrete for Repair of Bridge Substructures	Mahdi Arezoumandi, Corey Wirkman and Jeffery S. Volz	https://doi.org/10.1016/j.istruc.2018.07.015
Static deflection and thermal stress analysis of non-uniformly heated tapered composite laminate plates with ply drop-off	Shushanth Ashok and Pitchaimani Jeyaraj	https://doi.org/10.1016/j.istruc.2018.07.010
Predicted Versus Experimental Out-of- plane Force-displacement Behaviour of Unreinforced Masonry Walls	Kevin Walsh, Dmytro Dizhur, Ivan Giongo, Hossein Derakhshan and Jason Ingham	https://doi.org/10.1016/j.istruc.2018.07.012
The performance of lap splices in RC beams under inelastic reversed cyclic loading	M.A. Najafgholipour, S.M. Dehghan, M. Khani and A. Heidari	https://doi.org/10.1016/j.istruc.2018.07.011
A Low-cost Housing Solution: Earth Block Catenary Vaults	Mitchell Gohnert, Ivanka Bulovic and Ryan Bradley	https://doi.org/10.1016/j.istruc.2018.07.008