

MONITOR: PROCEEDINGS

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Bridge Engineering

Information technology in bridge engineering and construction
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Management of the M4 Elevated Section substructures

C. Hendy, C. Brock and T. Nicholls

Assessment of a bascule lift bridge using digital image correlation

A. Hoag, N. Houlst and A. Take

Design of the new pedestrian and cycleway bridge in Strabane, Northern Ireland

C. Giaccio, J. M. Caracul and D. Boothman

Bridge information modelling (BIM) for a listed viaduct

T. McKenna, M. Minehane, B. O'Keeffe,

G. O'Sullivan and K. Ruane

Management of structural monitoring data of bridges using BIM

J. M. D. Delgado, L. J. Butler, N. Gibbons, I. Brilakis,

M. Z. E. B. Elshafie and C. Middleton

Bridge weigh-in-motion using fibre optic sensors

M. Lydon, S. E. Taylor, C. Doherty, D. Robinson,

E. J. O'Brien and A. Žnidarič



Construction Materials

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Sugarcane bagasse ash brick as a novel insulator for dwellings

M. Madurwar and R. Ralegaonkar

Modified asphalt-based crack and joint repair system

S. S. Kar, R. Solanki, G. Kumar and P. K. Jain

Strength of cement-stabilised clay by hardness testing

Z.-F. Wang and Y. Chen

Performance of bitumen protective coatings for buried concrete

F. Abubaker, J. C. Cripps and H. S. Pouya



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Modelling of gas transport in proton exchange membrane fuel cells

N. Ahmadi, S. Rezazadeh, A. Dadvand and

I. Mirzaee

The role of equipment in seismic risk of power substations

S. A. Zareei, M. Hosseini and M. Ghafory-Ashtiani

A hierarchical model for biodiesel plant location in Brazil

C. A. N. Cosenza, C. das Neves and F. R. Lima



Engineering and Computational Mechanics

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Air–water interactions in urban drainage systems

S. J. Wright, J. G. Vasconcelos and J. W. Lewis

Lower bound plane stress element for modelling 3D structures

M. A. Herfelt, P. N. Poulsen, L. C. Hoang and J. F. Jensen

Optimisation of ground anchor head for non-destructive testing

A. Ivanović, A. Monese and R. D. Neilson



Engineering History and Heritage

German bridge infrastructure

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Arch action model applied to existing prestressed concrete bridges in Germany

A. Kolodziejczyk and R. Maurer

Bridge reassessment in Germany: shear capacity computation based on arch section model

P. Gleich and R. Maurer



Recalculation of German concrete bridges considering the code 'Nachrechnungsrichtlinie'

A. Krill

The rescue of small rolled beams embedded in concrete bridge in Germany

V. Boros, B. Novák and E. Pelke

Repairing fatigue damage on an orthotropic steel deck road bridge

J. Steiner, R. Laier, T. Würfel and M. Scherer

Restoration of the Echelsbacher Bridge in Germany

K. Goj and M. Hennecke

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Sustainable adaptation – part 2

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Climate change impacts on railway structures: bridge scour

H. Dikanski, A. Hagen-Zanker, B. Imam and K. Avery

Adaptable housing design for climate change adaptation

O. Kinnane, T. Grey and M. Dyer

Community-responsive adaptation to flooding in Kibera, Kenya

J. Mulligan, J. Harper, P. Kipkemboi, B. Ngobi and

A. Collin



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H. Baker, A. Moncaster and A. Al-Tabbaa

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Learning from case studies and monitoring of Dutch tunnel projects

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R. Signor, P. E. D. Love, O. Olatunji, J. J. C. B. Vallim and A. B. Raupp



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Geotechnical properties of a natural zeolite

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M. Konstadinou and M. Perraki

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Earth pressure on anchor–shotcrete retaining structures

J. Gao, J. Jia, H. Yang and W. Zhu

Dynamic analysis of monopile supported offshore wind turbines

K. A. Abhinav and N. Saha



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Crossrail project: programme managing the Elizabeth line, London
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Crossrail project to deliver London's Elizabeth line – from options to parliamentary bill

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Crossrail project to deliver London's Elizabeth line – the parliamentary bill process

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Crossrail project: finance, funding and value capture for London's Elizabeth line

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Crossrail programme organisation and management for delivering London's Elizabeth line

S. Wright, R. Palczynski and P. ten Have

Crossrail project: procuring infrastructure for London's Elizabeth line

K. Lloyd-Davies and M. Rowark

Crossrail project: commercial aspects of works contracts for London's Elizabeth line

D. Morrice and M. Hands

Crossrail project: environmental management during delivery of London's Elizabeth line

R. Paris, C. Myatt and M. de Silva

Crossrail project: building a virtual version of London's Elizabeth line

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S. Kim, S. W. Whang, S. Kim and W. G. Hyung

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The permeability of natural fibre drains, capturing their micro-features

T. T. Nguyen and B. Indraratna

Tyre chips as compressible inclusions in earth-retaining walls

S. B. Reddy and A. Murali Krishna

Evaluation of resonance compaction of sand

K. Rainer Massarsch and B. H. Fellenius

Ground-freezing experience on the east side access Northern Boulevard crossing, New York

P. Schmoll and A. Dawson

Effectiveness of resistivity cone penetration tests in salt-treated highly sensitive clay

T. E. Helle, M. Long, S. Nordan and P. Aagaard

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Managing stakeholders through alliances: a case study of a megaproject in New Zealand

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Engineering expert witness work: what the lawyers require

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B. Gouldby, D. Wyncoll, M. Panzeri, M. Franklin, T. Hunt, D. Hames, N. Tozer, P. Hawkes, U. Dornbusch and T. Pullen

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Improvements to road surfacing practice in Ethiopia

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Bee colony optimised mass rapid transit routing prototype

C. Wang, L. C. Wood, A. Davis Lim and H. Abdul-Rahman

Location factors affecting trip generation during megaevents

M. A. Vieira da Silva and L. da Silva Portugal

Implementing value engineering study for temporary facilities

B. Trigunarsyah and K. Z. Hamzeh

Walking and cycling on shared-use paths: the user perspective

H. Delaney, G. Parkhurst and S. Melia

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Pedestrian monitoring techniques for crowd flow prediction

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Understanding the impact of water management on people for investment in sustainable infrastructure in the UK

A. Cambridge, A. Gill, M. Barker, M. Tant, C. Simmonds and N. Watt

Patch antenna sensor rosettes for surface strain measurement

D. Li, C. Cho and Y. Wang

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Q. Huang, Z. Guo, J. S. Kuang and H. Behnam

Experimental study of a hybrid structural damper for multi-seismic levels

B. H. Hashemi and E. Moaddab

Strength reduction factors for wind and earthquake effects

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Luenberger observer application in decentralised control of civil structures

S. Aghajanian, F. Amini and B. Moaveni

Experimental study on column underpinning joints with inclined steel bars

E. Wu, N. Dong and K. Yuan

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Y. Li, W. Zhou, S. Nan, F. Wang and K. Chen

Determining a suitable position for U-turns near signal-controlled road junctions

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Safety factors of exit slip roads on China's urban motorways

X. Zhang, J. Wang, T. Li and J. Sun

Teenage trespass on the railways – a systems approach

P. E. Waterson, V. L. Kendrick and P. J. Underwood

Quantile analysis of factors influencing the time taken to clear road traffic incidents

Y. Zou, J. Tang, L. Wu, K. Henrickson and Y. Wang

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H. R. Behnood, E. Ayati, T. Brijs, M. P. Neghab and Y. Shen

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Analysing weekend travellers' customer value to businesses

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The impact of landform on urban identity, the case of Makkah

S. S. El-Esawy, K. S. Al-Hagla and Z. T. El Sayad

Making urban design a public participatory goal: toward evidence-based urbanism

M. Dyer, F. Corsini and C. Certomà

Integrating subsurface management in spatial planning in the Netherlands, Sweden and Flanders

F. Hooimeijer and L. Tummers

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A systematic review of food losses and food waste generation in developed countries

P. van der Werf and J. A. Gilliland

A review of construction waste management practices on selected case studies in Ireland

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Environmental benefits and recycling options for wood chips from furniture industries

M. A. Imteaz, N. Altheeb, A. Arulrajah, S. Horpibulsuk and A. Ahsan

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H. Tang, H. Zhao, Z. Li, S. Yuan, Q. Li, F. Ji and Y. Xiao

Erosion of collapsed riverbank and interaction with channel

M. Yu, S. Wu, C. Liu and A. Shu

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