

Infrastructure and Construction Virtual

APRIL 21, 2023



V-INFRA2023

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Webinar
Timings

Speakers
Timings

07:00 – 07:10

Introduction



Keynote Sessions

07:10 – 07:45

15:10 – 15:45

Title: Concrete thermal cracking control with soft interlayer in a tunnel composite lining system

Ma Jianqin, Chang'an University, China.

07:45 – 08:20

08:45 – 09:20

Title: Structural strengthening of masonry tunnels with advanced technology based on shotcreting fibre reinforced concrete

Joaquim Antonio Oliveira Barros, University of Minho, Portugal.

08:20 – 08:55

18:20 – 18:55

Title: Innovations in Recycling Concrete

Vivian WY Tam, Western Sydney University, Australia.

08:55 – 09:30

10:55 – 11:30

Title: 4D Printing of Materials for The Future of Civil Engineering

Ali Akbar Firoozi, University of Botswana, Botswana.

09:30 – 10:05

11:30 – 12:05

Title: Integrated seismic and energy retrofitting of the existing buildings

Dionysios A Bournas, European Commission, Joint Research Centre, Italy.

10:05 – 10:40

20:05 – 20:40

Title: Transport network monitoring 'big' data and its applications

Ashish Bhaskar, Queensland University of Technology, Australia.

10:40 – 11:15

20:40 – 21:15

Title: Static and dynamic material properties of lightweight geopolymer composite

Wensu Chen, Curtin University, Australia.

11:15 – 11:50

23:15 – 23:50

Title: Wind-uplift capacity of cold-formed steel weatherboard claddings
Krishanu Roy, University of Waikato, New Zealand.

11:50 – 12:25

19:50 – 20:25

Title: Biocementation: Strengthening soil and addressing environmental challenges

Khalida Muda, Universiti Teknologi Malaysia, Malaysia.

12:25 – 13:00

22:25 – 23:00

Title: Developing sustainable and resilient supply chains in the built environment

Yingbin Feng, Western Sydney University, Australia.

13:00 – 13:35

21:00 – 21:35

Title: Coupled Dynamic Analysis of Friction-Pendulum Base-Isolated Tall Buildings under Three-Dimensional Wind Load

Guoqing Huang, Chongqing University, China.

13:35 – 14:10

21:35 – 22:10

Title: Vertiport Planning for Urban Aerial Mobility

Kai Wang, Tsinghua University, China.

14:10 – 14:45

10:10 – 10:45

Title: Subsurface Data: Finding and Operationalizing the Invisible

Debra F Laefer, New York University, USA.



E-poster Presentation

14:45 – 14:50

22:45 – 22:50

Title: Deep Learning for Concrete Surface Damage Detection: Object Detection Approach

Ching-Lung Fan, Republic of China Military Academy, Taiwan.



Invited Presentation

14:50 – 15:10

11:50 – 12:10

Title: The Impact of Smart Cities on Lifestyle Modification:
Incorporating Digital Twin and Blockchain Technologies

**Karoline Figueiredo, Universidade Federal do Rio de Janeiro,
Brazil.**

Closing Ceremony