

EASEC-14

The Fourteenth East Asia - Pacific Conference on Structural Engineering and Construction

EDITORS
Hoang, Nam
Dang, Dang Tung

Keynote Lectures

Special Sessions

General Sessions

- **ADM** Analytical & Design Methods
- **BRE** Bridge Engineering
- **CMS** Composite Material Structures
- **COM** Computational Mechanics
- **COT** Concrete Technology
- **CMT** Construction Management Technique
- **DIP** Disaster Prevention
- **EQE** Earthquake Engineering
- **MRR** Maintenance, Repairs & Rehabilitation
- **NCM** New Construction Materials
- **STT** Steel Technology
- **STD** Structural Dynamics
- **SHM** Structural Health Monitoring
- **WIE** Wind Engineering



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- Department of Civil Engineering - HCMC University of Architecture

- Institute for Building Science and Technology
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Preface

The East Asia - Pacific Conference on Structural Engineering and Construction (EASEC) is the first civil engineering conference series in the Asian region. EASEC was founded by the late Professor Fumio Nishino and his colleagues at the Asian Institute of Technology in 1986. Thereafter, EASEC has been held 12 times in Chiang Mai (1989), Shanghai (1991), Seoul (1993), Gold Coast (1995), Taipei (1998), Kochi (1999), Singapore (2001), Bali (2003), Bangkok (2006), Taipei (2008), Hong Kong (2012), and Sapporo (2013). Thirty years since its launching, EASEC-14 is for the first time held in Ho Chi Minh City, Vietnam, and this is an honor for HCMC University of Technology to host this significant event, in collaboration with other universities and organizations in Vietnam.

EASEC aims at creating a forum to exchange information leading to close collaboration and cooperation, to find new ideas, new understandings and to bring new perspectives to the fields that will lead to positive changes in our society, in our life.

The main theme of EASEC-14 is Building a Smart Infrastructure. This seems timely, considering the vast development of infrastructure of Ho Chi Minh City as well as other megacities in Asia, with the onset of digital technologies.

The call for papers was addressed to scholar and professionals in the fields of Structural Engineering and Construction and the response reflects the scale of construction activities in the region and extended worldwide. More than 300 authors have submitted their work in the Conference. 400 participants from over 20 countries/economies make the Conference truly international in scope. The papers in 34 general sessions and 9 special sessions share great views on contemporary topics, i.e. structural health monitoring, sustainable composite material and systems, climate change adaptation, innovations in design methods, infrastructure asset management. Notably there are 12 invited keynote lectures covering different challenges of infrastructure development.

EASEC-14 cannot be realized without immense support from members of the International Steering Committee, International Advisory Committee and Local Advisory Committee. Appreciation is also due to our local sponsors whose funds are sizable and permitted us to support a significant number of young scientists. We owe much to the organizers of special sessions, the members of the organizing committee and to all others who contributed to the success of the Conference.

On behalf of the conference organizer of EASEC - 14, I would like to acknowledge you all for being with us in Ho Chi Minh City! Wishing that, by adhering to the spirit of EASEC, the event could provide you valuable and memorable time, in sustaining your own professional development!

Hoang Nam
Conference Chair

EASEC-14

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