Research, Development, and Practice in

Structural Engineering and Construction

Editors

Vanissorn Vimonsatit

Curtin University, Bentley Campus, Perth

Amarjit Singh

University of Hawaii at Manoa, Honolulu

Siamak Yazdani

North Dakota State University, Fargo



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RESEARCH, DEVELOPMENT, AND PRACTICE IN STRUCTURAL ENGINEERING AND CONSTRUCTION

Editors: Vanissorn Vimonsatit, Amarjit Singh and Siamak Yazdani

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Preface

Technological advancements in structural engineering and construction are the outcome of collective research, development and practical innovation from individuals, research communities, and industrial professionals. An international conference serves as an effective platform for bringing together the latest advancements in research, development, and practice.

The First Australasia and South East Asia Conference in Structural Engineering and Construction (ASEA-SEC-1) is an inaugural regional conference that is a branch of ISEC conferences aimed at bringing together academics and practitioners. The conference is held on the campus of Curtin University, Perth, Western Australia during 28 Nov – 2 Dec, 2012.

The structure of this book reflects the structure of the conference in that there are 32 sections that correspond to 32 sessions in the conference. There are 184 articles from 38 countries by 372 authors and co-authors. All the articles have been selected after a rigorous peer-review process of two stages – the abstract review and the full paper review. The 184 papers selected for the presentation in parallel technical sessions provide the focal discussion points on relevant and related topics.

This book covers a wide range of topics in the area of legal affairs and contracting, construction technology and innovation, facilities and asset management, project management and risk analysis, safety and quality, planning and development, analysis and design of structural systems, materials, pavement, architecture, water infrastructure and management, and education and sustainability, among many more.

We congratulate and thank the authors for their articles that are published in this book. Many thanks are due to members of the International Technical Committee and all the reviewers for their assistance in the review process. Special mention must be given to Curtin University, Bentley Campus, for providing the facilities which enable the conference to be organised.

Dr. Vanissom Vimonsatit, Curtin University, Bentley Campus, Perth
Dr. Amarjit Singh, University of Hawaii at Manoa, Honolulu
Dr. Siamak Yazdani, North Dakota State University, Fargo
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