

BUILT

International Journal of Building, Urban, Interior and Landscape Technology

Volume 10, 2017

BUILT Editors

Executive Honorable Advisors:

Professor Vimoisiddhi Horayangkura, Ph.D.
Associate Professor Chalermwat Tantasavasdi
Associate Professor Pusit Lertwattanakul, Ph.D.
Assistant Professor Pimonmart Wankanapon, Ph.D.
Daranee Jareemit, Ph.D.

Thammasat University, Thailand
Thammasat University, Thailand
Thammasat University, Thailand
Thammasat University, Thailand
Thammasat University, Thailand

Editor-in-Chief:

Associate Professor Pawinee Iamtrakul, Ph.D.

Thammasat University, Thailand

Editorial Board:

Professor Jelena Srebric, Ph.D.
Professor Mahjoub Elnimeiri, Ph.D.
Professor Mojtaba Navvab, Ph.D.
Professor Peter von Buelow, Dr.-Ing.
Professor Shin-ichi Tanabe, Ph.D.
Professor Weijun Gao, D. Eng.
Associate Professor Jae-Weon Jeong, Ph.D.
Assistant Professor Sezer Atamturktur, Ph.D.
Assistant Professor Sutee Anantsuksomsri, Ph.D.
Torwong Chenvidyakarn, Ph.D.
Associate Professor Sudaporn Sudprasert, Ph.D.
Assistant Professor Kongkoon Tochaiwat, Ph.D.
Assistant Professor Nij Tontisirin, Ph.D.
Chawee Busayarat, Ph.D.
Chulawadee Santad, Ph.D.
Manat Srivanit, Ph.D.

The University of Maryland, College Park, MD, USA
Illinois Institute of Technology, USA
University of Michigan, USA
University of Michigan, USA
Waseda University, Japan
The University of Kitakyushu, Japan
Hanyang University, Korea
Clemson University, USA
Chulalongkorn University, Thailand
SC Asset Corporation Plc., Thailand
Thammasat University, Thailand
Thammasat University, Thailand
Thammasat University, Thailand
Thammasat University, Thailand
Thammasat University, Thailand

Copy Editor:

Apinya Hemmawannagoon

Thammasat University, Thailand

Graphic Designer:

Panudda Rodsattru

Thammasat University, Thailand

Secretary:

Pimwadee Eomthurapote

Thammasat University, Thailand

Editorial

With the great pleasure, we would like to present the Volume 10 of the International Journal of BUILT which contains the research papers related to the field of Building, Urban, Interior and Landscape Technology. This online journal is published biannually the results of significant research articles which the current volume consists of four interesting articles from both local and foreign researchers. The collection of all articles can be listed as the following topics;

- Comparison of Ventilation with Moist and Dry Air in the Room Connecting to a Solar Chimney;
- Identifying the Arrangement of Activities of Corridor Spaces in Transit Station;
- Resilience in Urban Transport Towards Hybrid Canal-Rail Connectivity Linking Bangkok's Canal Networks to Mass Rapid Transit Lines;
- A Collaborative Geodesign Approach for Integrating Local and Technical Knowledge in Establishing Land-Use Planning for the Border Town Comprehensive Plan.

This volume also includes the book reviews of "Contemplative Dialogues" which is the documentation of a workshop in 2017 by Association of Siamese Architects under the Royal Patronage (ASA), in collaborations with Embassy of Austria in Thailand, Faculty of Architecture of Thai universities, architects, and designers. It reflects many issues from the activities during workshop which are to find knowledge or wisdom in using local materials Thailand and doing mini-research to utilize and apply those materials to new dimensions.

We trust our readers will enjoy and benefit from this volume. Finally, from all of the board members and editorial staffs, we wish all of our readers, authors, reviewers and our International Editorial Board Members a Happy New Year.



Associate Professor Pawinee IAMTRAKUL, Ph.D.
Editor-in-chief

CONTENTS

- 7 **Comparison of Ventilation with Moist and Dry Air in the Room Connecting to a Solar Chimney**
Sudaporn Sudprasert and Jyrki Luukkanen
- 17 **Identifying the Arrangement of Activities of Corridor Spaces in Transit Station**
Somsiri Siewwuttanagula, Rungpansa Noichanb, Bart Dewanckerc, Takuro Inohaed and Nobuo Mishimae
- 27 **Resilience in Urban Transport Towards Hybrid Canal-Rail Connectivity Linking Bangkok's Canal Networks to Mass Rapid Transit Lines**
Pawinee lamtrakul, Manat Srivanit and Jirawan Klaylee
- 43 **A Collaborative Geodesign Approach for Integrating Local and Technical Knowledge in Establishing Land-Use Planning for the Border Town Comprehensive Plan**
Suppawad Kaewkhow and Manat Srivanit
- 55 **Book Review: Contemplative Dialogues**
Supreedee Rittironk
- 59 **Advisory Board**
- 61 **Manuscript Preparation Guideline**

