EDITOR-IN-CHIEF
Prof. Ar. Dr. Abdul Razak Sapian
Kulliyyah of Architecture & Environmental Design
International Islamic University Malaysia
e-mail: arazaks@iium.edu.my

EXECUTIVE EDITOR
Asst. Prof. Dr. Aniza Abu Bakar
Kulliyyah of Architecture & Environmental Design
International Islamic University Malaysia
e-mail: aaniza@iium.edu.my

TECHNICAL EDITORS

Secretariat
Asst. Prof. Dr. Raja Intan Suhaylah Raja Abdul Rahman (IIUM)
Asst. Prof. Dr. Nayeem Asif (IIUM)

Section Editors
Asst. Prof. Dr. Aida Kesuma Azmin (IIUM) - Architecture
Asst. Prof. Dr. Illyani Ibrahim (IIUM) - Urban & Regional Planning
Asst. Prof. Dr. Arita Hanim Awang (IIUM) - Applied Arts & Design
Asst. Prof. Dr. Nur Affah Mohyin (IIUM) - Quantity Surveying
Asst. Prof. Dr. Jamilah Othman (IIUM) - Landscape Architecture

Language Editors
Asst. Prof. Dr. Zumahiran Kamarudin (IIUM)
Asst. Prof. Dr. Mohd. Noorzhar Ismail (IIUM)

Layout Editors
Assoc. Prof. LAr. Dr. Putri Haryati Ibrahim (IIUM)
INTERNATIONAL ADVISORY BOARD

Assoc. Prof. Dr. Mazlina Mansor (DDPG)
Assoc. Prof. TPr. Dr. Norzailawati Mohd Noor (DDAAIL)
IDr. Ts. Ismail Jasmani (DDSDCE)
Prof. TPr. Dato’ Dr. Alias Abdullah (IIUM)
Prof. Dato’ Sri Ar. Dr. Asiah Abdul Rahim (IIUM)
Prof. TPr. Dr. Mariana Mohamed Osman (IIUM)
Assoc. Prof. TPr. Dr. M. Zainora Asmawi (IIUM)
Assoc. Prof. Ir. Dr. Mohd Fairullazi Ayob (HoRRI)
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface</td>
<td>v</td>
</tr>
<tr>
<td>COMPARATIVE PLANNING FOR PORT CITIES IN SOUTHEAST ASIA AND PERSIAN GULF</td>
<td>1</td>
</tr>
<tr>
<td>Sayyed Nouroddin Amiri, Norzailawati Mohd Noor, Nurin Fadhлина Mohd Anafi</td>
<td></td>
</tr>
<tr>
<td>STRATEGIES BY THE CONSTRUCTION COMPANIES IN MALAYSIA TO SURVIVE FROM THE IMPACTS OF THE COVID-19 PANDEMIC</td>
<td>17</td>
</tr>
<tr>
<td>Nurul Anis Fadhilah Norhaidin, Tan Chin Keng</td>
<td></td>
</tr>
<tr>
<td>AN INVESTIGATION ON SUSTAINABLE REFURBISHMENT PRACTICE OF BUILDING WORKS IN MALAYSIA</td>
<td>29</td>
</tr>
<tr>
<td>Luqman Hakim Mohd Sopery, Mohd Fairullazi Ayob</td>
<td></td>
</tr>
<tr>
<td>DATA QUALITY ISSUES THAT HINDER THE IMPLEMENTATION OF ARTIFICIAL NEURAL NETWORK (ANN) FOR COST ESTIMATION OF CONSTRUCTION PROJECTS IN MALAYSIA</td>
<td>40</td>
</tr>
<tr>
<td>Alya Farhani Mohd Zammari, Mohd Fairullazi Ayob</td>
<td></td>
</tr>
<tr>
<td>INVENTORY OF ARCHITECTURAL HERITAGE SHOPHOUSES IN JALAN MENDALING, KAJANG OLD TOWN</td>
<td>54</td>
</tr>
<tr>
<td>Amir Ridhwan Mohamed, Nayeem Asif, Fadzidad Abdullah, Zeenat Begam Yusof, Aida Kesuma Azmin</td>
<td></td>
</tr>
<tr>
<td>VISUAL COMFORT ANALYSIS OF VARIOUS WINDOW-SHADINGS FOR OFFICE BUILDINGS IN KABUL, AFGHANISTAN</td>
<td>64</td>
</tr>
<tr>
<td>Jaihoon Jahish, Fadzidad Abdullah, Aliyah Nur Zafírah Sanusi</td>
<td></td>
</tr>
<tr>
<td>A REVIEW ON METHODS OF ANALYSIS OF THE PIGMENTS AND INKS IN ILLUMINATED MANUSCRIPT</td>
<td>77</td>
</tr>
<tr>
<td>Nawal Mash'al, Rajabi Abdul Razak, Harlina Md. Sharif</td>
<td></td>
</tr>
</tbody>
</table>
Notes for Contributors
All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors, and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed, or endorsed by the publisher.

Published by

IIUM PRESS, Research Management Centre and Kulliyyah of Architecture and Environmental Design, International Islamic University Malaysia

Copyright©2016 Kulliyyah of Architecture and Environmental Design
ISSN 2231-9514
e-ISSN 2462-2222

All rights reserved. The authors are solely responsible for the statement made and opinions expressed in it and its publication does not imply that such statements and/or opinions are/or reflect the views or opinions of the Editors and Publisher. While every effort has been made to trace and acknowledge copyright, however if infringement should have occurred, the Editors and Publisher tender our apologies and upon this being pointed out would take steps to make the necessary correction.
Dear All,

Journal of Architecture, Planning and Construction Management (JAPCM), Kulliyyah of Architecture and Environmental Design is one the official journals of International Islamic University Malaysia (IIUM), under IIUM Press. It embarked in 2011 and is dedicated to the publication of original articles on the specialized fields of Architecture, Planning, Landscape Architecture, Quantity Surveying, Building Technology and Engineering, Applied Arts and Design, Construction Management and those related to the Built Environment. JAPCM is also the ardent forum for the reports of research that bridged the Built Environment and the Islamic worldview.

Prof. Ar. Dr. Abdul Razak Sapian
Editor-in-Chief