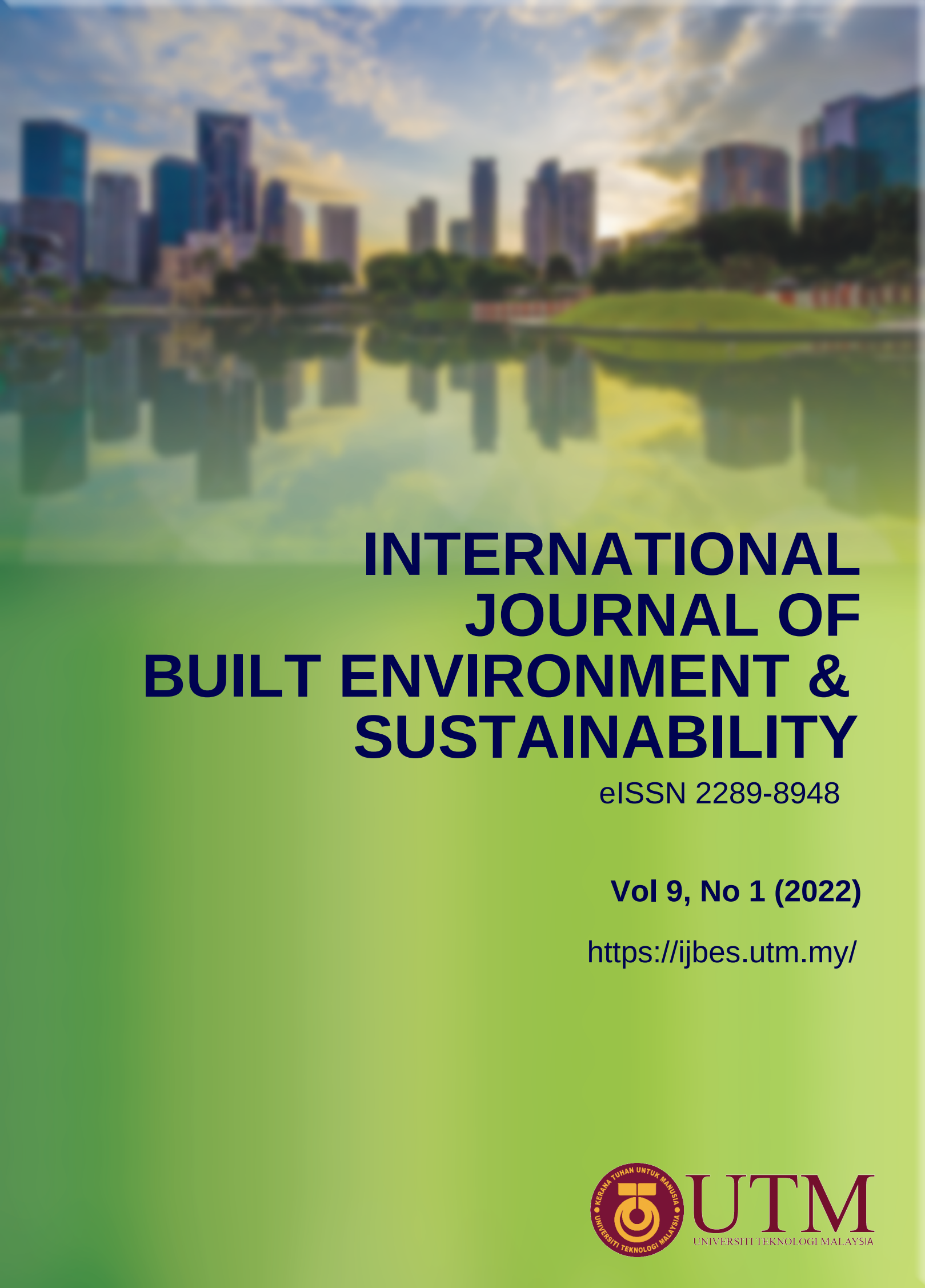




INTERNATIONAL JOURNAL OF BUILT ENVIRONMENT & SUSTAINABILITY

eISSN 2289-8948

Vol 9, No 1 (2022)

<https://ijbes.utm.my/>



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

IJBES

International Journal of Built Environment and Sustainability

CHIEF EDITOR

Professor Ts. Dr. Mohd Hamdan Ahmad, Universiti Teknologi Malaysia

MANAGING EDITOR

Sr Dr. Shamsul Hadi Bandi, *PQS, MRISM* Universiti Teknologi Malaysia

SECTION EDITORS

Assoc. Prof. Dr. Alice Sabrina Ismail, Universiti Teknologi Malaysia, Malaysia

Dr. Gabriel Ling, Universiti Teknologi Malaysia, Malaysia

Dr. Norhazren Izatie Mohd, Universiti Teknologi Malaysia, Malaysia

Dr. Nurul Hawani Idris, Universiti Teknologi Malaysia, Malaysia

Dr. Shazmin Shareena Ab Azis, Universiti Teknologi Malaysia, Malaysia

LAr Dr. Siti Rahmah Omar, Universiti Teknologi Malaysia, Malaysia

EDITORIAL BOARD

Professor Ts. Dr. Mohd Hamdan Ahmad, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Roslan Amirudin, Universiti Teknologi Malaysia, Malaysia

Dr. Ariva Sugandi Permana, King Mongkut Institute of Technology Ladkrabang, Thailand

Sr Dr. Shamsulhadi Bandi, Universiti Teknologi Malaysia, Malaysia

Professor Dr. ATM Nurul Amin, BRAC University, Bangladesh

Assoc. Professor Dr. Kherun Nita Ali, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Shahed Khan, Curtin University of Technology, Australia

Assoc. Professor Dr. Bhishna Bajracharya, Bond University, Australia

Assoc. Professor Dr. Maimunah Sapri, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Ir. Ansar UI Haque Yasar, Hasselt University Belgium, Belgium

Assoc. Prof. Dr. Alice Sabrina Ismail, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Mohammad Arif Kamal, Aligarh Muslim University, India

Assoc. Professor Dr. Mahmud Mohd Jusan, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Zulkepli Majid, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Wong Sing Sing, University College of Technology Sarawak, Malaysia

Assoc. Professor Dr. Tetsu Kubota, Hiroshima University, Japan

Assoc. Professor Dr. Chandrasekar Parsuvanathan, National University of Singapore, Singapore

Dr. Shazmin Shareena Ab Azis, Universiti Teknologi Malaysia, Malaysia

Dr. Gabriel Ling Hoh Teck, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Awais Piracha, Western Sydney University, Australia

Dr. Soheil Sabri, The University of Melbourne, Australia

Assoc. Professor Dr. Khairul Anwar Khaidzir, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Raja Nafida Raja Shahminan, Universiti Teknologi Malaysia, Malaysia

Professor Dr. M. Rafee Majid, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Julaihi Wahid, Universiti Sains Malaysia, Malaysia

Professor Dato' Dr. Mansor Ibrahim, International Islamic University of Malaysia, Malaysia

Assoc. Professor Dr. Vilas Nitivattananon, Asian Institute of Technology, Thailand

Professor Dr. Ismail Said, Universiti Teknologi Malaysia, Malaysia

Dr. Nurul Hawani Idris, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Kwon Tae Ho, Semyung University, Korea

Dr. Anoma Kumarasuriyar, Queensland University of Technology, Australia

Emeritus Professor Dr. Jayant Kumar Routray, Asian Institute of Technology, Thailand

Professor Ir. Dr. Roos Akbar, Bandung Institute of Technology, Indonesia

Assoc. Professor Dr. Gurupiah Mursib, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Michihiko Shinozaki, Shibaura Institute of Technology, Japan

Dr. Siti Rahmah Omar, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Ranjith Perera, Sultan Qaboos University, Oman

Dr. Tareef Hayat Khan, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Hasanuddin Lamit, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Sudaryono Sastrosasmito, Gadjah Mada University, Indonesia

Assoc. Professor Dr. Zalina Shari, Universiti Putra Malaysia, Malaysia

Dr. Norhazren Izatie Mohd, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Nur Emma Mustapa, Universiti Teknologi Malaysia, Malaysia

Assoc. Professor Dr. Fadhliln Abdullah, Universiti Teknologi Malaysia, Malaysia

Professor Dr. Nasiru Medugu Idris, Nasarawa State University, Nigeria

Dr. Adati Ayuba Kadafa, Nasarawa State University, Nigeria





Mail Address:

International Journal of Built Environment and Sustainability

Faculty of Built Environment and Surveying

Universiti Teknologi Malaysia

81310, Johor Bahru, Malaysia

Telephone: +60-7-5537382

Email: ijbes@utm.my

Copyright © FAB, UTM, 2022

Cover Design and Type-set by: Shamsulhadi/Hairunnisa/Azman

DISCLAIMERS:

This publication is intended to enrich the knowledge in the field of built environment and sustainability. Therefore, you may use the materials contained herein for free as long as for the use of academic purpose. However, you must cite this scientific material properly.

The views expressed in this publication do not necessarily reflect the views of the Faculty of Built Environment and Surveying, Universiti Teknologi Malaysia.



The IJBES is an international peer-reviewed Journal
Published in collaboration between Faculty of Built Environment and Surveying and Penerbit UTM

E-ISSN: 2289-8948

ISSN: 1511-1369

IJBES

Vol. 9, No. 1, 2022

Table of Contents

Articles

1. **Biomimetic Architecture Towards Bio Inspired Adaptive Envelopes: In Case of Plant Inspired Concept Generation** 1-10
Nazgol Hafizi¹ and Mojtaba Karimnezhad¹
¹*Eastern Mediterranean University, Faculty of Architecture, Department of Architecture, Famagusta, Cyprus, Via Mersin 10*
2. **Public Perception on Attributes of Walking Avenues in Urban Areas of Sri Lanka** 11-21
N.C. Wickramaarachchi¹, M. T. U Perera¹ and J.L.I Dilhan¹
¹*University of Sri Jayewardenepura, Sri Lanka*
3. **BIM Education in Higher Learning Institutions: A Scientometric Review and the Malaysia Perspective** 23-37
Bruno Iot Tanko¹ and Lawrence Mbugua²
¹*School of the Built Environment, University of Reading Malaysia, Johor, Malaysia*
²*School of Construction Management and Engineering, Whiteknights Campus, University of Reading, United Kingdom*
4. **Building Energy Codes: Reviewing the Status of Implementation Strategies in the Global South** 39-53
Tariene Gaum¹ and Jacques Laubscher¹
¹*Department of Architecture and Industrial Design, Tshwane University of Technology, South Africa*
5. **A Study On Inter- Relationship Of Open Space And Social Cohesion For Wellbeing Of Elderly: A Systematic Literature Review** 55-72
Shanta Pragyan Dash¹ and N. Lakshmi Thilagam²
¹*Manipal School of Architecture and Planning, Manipal, Karnataka, India*
²*Kalasalingam School of Architecture, Kalasalingam Academy of Research and Education, Tamil Nadu, India*
6. **Parametrising Historical Islamkoy Courtyard-Dwellings: Spatial Quality Parameters and Examination Based on AHP Method** 73-87
Selver Koç Altuntas¹ and Makbulenur Onur¹
¹*Karadeniz Tech. University, Turkey*
7. **How to Reveal the Meaning of Space in Vernacular Architecture?** 89-97
Parmonangan Manurung¹ and Sudaryono Sastrosasmito¹ and Diananta Pramasari¹
¹*Department of Architecture and Planning, Faculty of Engineering, Universitas Gadjah Mada, Indonesia*
8. **Personality and Walkability: Predicting Walking Behaviour in Urban Settings using the Higher Order Factors of the Big Five amongst Malaysian Adults** 99-105
Ahmad Syukri Bashri¹ and Rohayah Che Amat²
¹*Malaysian Urban Design Association, Kuala Lumpur, Malaysia*
²*Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia, 54100 Kuala Lumpur, Malaysia*

