SPRINGER LINK	ြို Account					
\equiv Menu Q Search	े다 Cart					
Home > Conference proceedings						
Manne in Triff Cattery Nama Sentements						



Sustainable Resilient Built Environments

Proceedings of SRBE 2022, India

| Conference proceedings | © 2024

Overview

Editors: Rama Devi Nandineni, Susan Ang, Norwina Binti Mohd Nawawi

Provides insights on the past and future prospects of 'sustainability' as an integrated approach

Covers all aspects of built environment and explores new avenues toward sustainable and resilient built environment

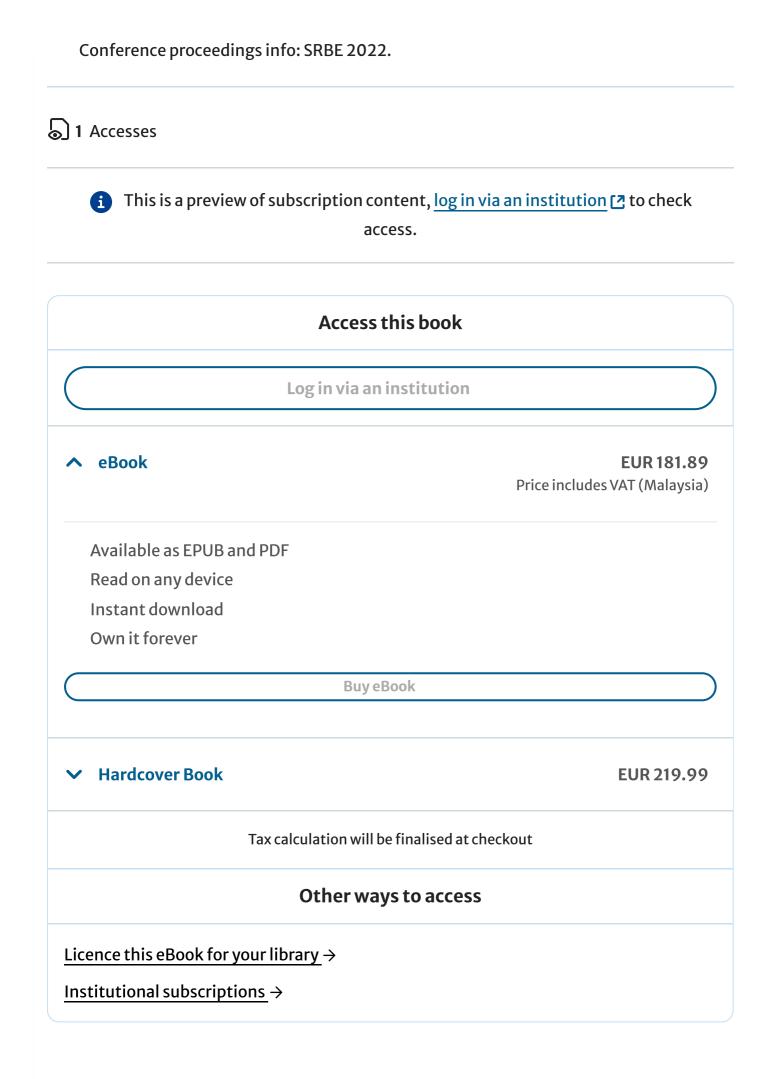
Presents various integrated sustainable approaches toward community resilience within built environment

Part of the book series: Advances in 21st Century Human Settlements (ACHS)

Included in the following conference series:

rence on Variability of the Sun and sun-like stars: from

20 Articles Found



About this book

The proceedings of Sustainable Resilient Built Environments are based on the SRBE 2022 conference held in December 2022. It focuses on the advances under the overarching theme of 'Sustainability'. The concept of 'Sustainability' has been conventionally defined as meeting the needs of the present without compromising the ability of future generations to meet their own needs. In scientific literature, sustainable development has been analysed using different qualitative approaches, such as economic, social, ecological, cultural, institutional, ethical, and political. In this edited volume, the concepts of both 'sustainability', and 'resilience' are considered to open up useful pathways towards achieving sustainable buildings and infrastructure. Though the concepts of sustainability and resilience are considered to help improve the built environment, the interrelations and interdependence between these two concepts are not clearly evident. This has led to the questions such as: Is thesustainable built environment always resilient? Is the resilient built environment always sustainable? What more is needed for sustainability? In exploring these pertinent questions, the proposed edited volume is expected to unveil and disseminate new insights on the themes related to sustainable and resilient built environment.

The themes of the proceedings lay a platform for researchers and professionals to integrate the aspects including smart, innovation, technologies, green, energy efficiency, carbon reduction, sustainability and resilience with regard to buildings and other built infrastructure. Specific objectives included as per the five themes are as follows:

Environment Design and Sustainability

Sustainable & Smart Buildings

Community Resilience & Social Sustainability

Pandemic issues and sustainable development

Keywords



Search within this book

Q Search

Table of contents (92 papers)

Sustainable and Smart Buildings

Design and Methodology for Automated Intelli-Smart Shading Apparatus for Commercial Building Fenestrations in India

Kiriti Sahoo, Santhi Sree, Minni Sastry, Vini Halve, Hara Kumar Varma, Sanjay Seth Pages 445-455

Classification of Sustainability Assessment Parameters for Residential Buildings Materials Using Relative Importance Index

Parul Bhyan, Priya Tyagi, Bhavna Shrivastava, Nand Kumar Pages 457-473

Epistemological Approach to Ascertain Human Comfort in Rural Houses in the Indian Context

Priya Tyagi, Parul Bhyan, Bhavna Shrivastava, Nand Kumar Pages 475-485

Kinesthetics of a Staircase

Shreya Gupta, Abhiney Gupta, Navin Gupta, Abhimanyu Sharma Pages 487-498

Structural Response of Concrete Flexural Members Reinforced with GFRP Bars: Sustainable Development Approach

Trupti Amit Kinjawadekar, Shantharam Patil, Gopinatha Nayak Pages 499-507

Living Lab Approach for Son La City, Vietnam, Innovations for Climate Change Solutions

Nguyen Thai Huyen

Pages 509-519

Analyzing Energy Culture on High-Rise and Low-Rise Residences in Hot and Humid Climate

N. Mekala Devi, D. Kannamma Pages 521-532

Exploring Spatial Arrangements in an Office Space Through Daylighting Analysis of Shading Device: An Experimental Simulation Model

Akshay Kumar, Roshan S. Shetty, Anam Haque, Prakash Rao Gurpur Pages 533-547

Optimizing Building Orientation, Window-to-Wall Ratio, and Calculated Solar Shades and Strategies to Enhance the Building's Daylight Performance and Energy-Saving Potential

S. Diksith, Roshan S. Shetty, B. Swarnika, Prakash Rao Gurpur Pages 549-561

Community Resilience and Social Sustainability

Front Matter

Pages 563-563

Download chapter PDF 坐

<u>The Influence of Socio-cultural Factors on Open Space in Fisherman</u> Settlement, Udupi District—Karnataka

Jambavati Gouda Pages 565-573

Urban Planning and Crime Prevention in Public Spaces

Dharshan Prabhu, Sweta Sreekumar Pages 575-584

Accessible Spaces in Urban Placemaking

Ishani Joshi **Pages 585-593**

Mapping Cyclone and Flood Hazard Vulnerability in Puri District, Odisha, India, Using Geoinformatics

Keerti Manisha, Vishal Chettry

Pages 595-603

Community Perceptions of Engagement in Sustainable Building Design/Construction in Rural Context

Gayani Karunasena, Susan Ang, Sachie Gunatilake, M. F. F. Fasna Pages 605-615

Investigating the Migrant Workers' Housing Situation in Mangalore City: A Dialogue on Inclusive Housing Design

Assessing the Walkability of Nagpur City at Neighborhood Level Using Walk Score Index

Shivanjali Mohite, Meenal Surawar Pages 631-642

Fire Safety of Urban Villages in Noida: Gap Identification in Policies and Building Norms

Prerna Sharma, Amit Kumar Jaglan **Pages 643-653**

Impact Assessment of Citizen Participation and Service Quality on Citizen Satisfaction in Smart Cities in India

Vikrant Dhenge, Gopi Nimbarte, Prashant Dhenge Pages 655-664

<u>Reducing Disaster Risk and Reinstating Livelihood Through an Ecosystem</u> Approach

Nidhi Shenai

Pages 665-673

	< <u>Previous</u>	<u>1</u>	<u>2</u>	3	<u>4</u>	<u>5</u>	Next >	
Back to top 1								

Other volumes

1. Sustainable Resilient Built Environments

Editors and Affiliations

Manipal School of Architecture & Planning, Manipal Academy of Higher Education, Manipal, India

Rama Devi Nandineni

School of Arch & Built Environment, Deakin University, Geelong, Australia

Susan Ang

Kulliyyah of Architecture & Environmental Design, International Islamic University Malaysia, Kuala Lumpur, Malaysia

Norwina Binti Mohd Nawawi

About the editors

Prof. Dr. Nandineni Rama Devi, an architect by profession is currently Professor and Director at Manipal School of Architecture and Planning (MSAP), Manipal Academy of Higher Education (MAHE). She has an experience in the industry for over a decade, during which, she was actively engaged in designing residential, office, and healthcare buildings through her consultancy. Her passion for education led her to work as a visiting and full-time professor in esteemed architecture colleges in Hyderabad. She also serves as an expert, reviewer, and examiner for undergraduate, master's, and doctoral evaluations and interactions. She is a Chairperson for all the doctoral committees and Board of Studies at MSAP, MAHE. She also had the privilege of chairing sessions at international and national conferences, along with delivering keynote addresses and has several scientific papers published in indexed journals and book chapters to her credit. She is involved in mentoring students and scholars across diverse areas and disciplines, including interprofessional domains, which include culture, allied health sciences, technology, hotel management, User experience design (UX) and sustainability in the built environment. Her work has been particularly enriching in her engagement with intercultural dialogue through design. In this context, she has organized collaborative

transcultural design studios at Manipal, India bringing together the students from different countries, such as Australia, Malaysia and India, to connect with local communities and develop participatory designs. She has a strong commitment to working for the betterment of the community and has had the privilege of mentoring students from MAHE and abroad in designing Anganwadis at Ajjarkad in Udupi district, and Shirthady in Mangalore District. Locally, her academic contributions, along with MAHE students, have supported sustainable developments of the river islands in Udupi and the city of Shivamogga. On behalf of MSAP, she is also involved in Smart cities and Academia Towards Action & Research – SAAR, an initiative by The Ministry of Housing and Urban Affairs (MoHUA) and National Institute of Urban Affairs (NIUA).

Ms.Susan Ang has Master's by Research in Architecture, Deakin University, Australia, in 2008. She is Associate Head of School International, Chief Investigator and Project leader for multiple interdisciplinary research grants. She is teaching expertise in architecture design and architecture research thesis. She is Member of Accreditation Standing Panel, Architects Accreditation Council of Australia. She is Creative Director for SONA 2021 Super studio, National Student Organized Network of Architecture affiliated with the Australian Institute of Architects.

Norwina Mohd Nawawi is an Architect and a Senior Academic Fellow at the Department of Architecture, Kulliyyah of Architecture and Environmental Design (KAED), International Islamic University Malaysia (IIUM). She has a Doctor of Philosophy (Built Environment), IIUM; a Master of Arts (Health Facility Planning), North London Polytechnic, UK; a Postgraduate Diploma in Islamic Reveal Knowledge, IIUM; and a Bachelor of Architecture Degree, Universiti Teknologi Malaysia (UTM). She was an Associate Professor at IIUM from 1998 to 2020, the first Head Department for Architecture in 1998. While in IIUM, she served as the Deputy Dean Student Affairs for KAED, Academic Advisor for undergraduate and postgraduate architecture programs, led the Islamic Architectural Heritage Research Unit (ISArcH) set up in June 2013, and Internationalisation and Global Network for KAED. She is also a Malaysian Institute of Architects (PAM) fellow. She represents PAM at the Union of International Architects (UIA) in Architecture for All and Public Health Work programmes. She also represents PAM at the Architect Regional Council of Asia (ARCASIA) under the ARCASIA Committee for Social Responsibility since 2014.

Bibliographic Information

Book Title Sustainable Resilient Built Environments **Book Subtitle** Proceedings of SRBE 2022, India

Editors Rama Devi Nandineni, Susan Ang, Norwina Binti Mohd Nawawi

Series Title Advances in 21st Century Human Settlements **DOI** https://doi.org/10.1007/9 78-981-99-8811-2

eBook Packages Earth and Environmental Science, Earth and Environmental Science (R0)

Softcover ISBN 978-981-99-8813-6 Due: 06 August 2024

Series E-ISSN 2198-2554 **Copyright Information** The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2024

eBook ISBN 978-981-99-8811-2 Published: 05 July 2024

Edition Number

Hardcover ISBN 978-981-99-8810-5 Published: 06 July 2024

Series ISSN 2198-2546

Publisher

Springer Singapore

Number of Pages XXV, 1162 Number of Illustrations 88 b/w illustrations, 547 illustrations in colour TopicsSustainable Development,Cyber-physical systems,IoT, ProfessionalComputing, SustainableArchitecture/GreenBuildings, Social Work andCommunity Development,EnvironmentalManagement

Publish with us

Policies and ethics

Back to top 1