
INTERDISCIPLINARY APPROACHES
TO SUSTAINABILITY,
INNOVATIONS, CULTURAL
HERITAGE, TECHNOLOGY, AND
URBAN DEVELOPMENT IN
INDONESIA

Editor

Dr. Teena Singh



Interdisciplinary Approaches to Sustainability, Innovations, Cultural Heritage, Technology, and Urban Development in Indonesia



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PREFACE

This book brings together a diverse collection of interdisciplinary studies that explore the intersection of sustainability, technology, cultural preservation, and urban development. The chapters within offer a unique perspective on these themes, particularly in the context of Indonesia, a country rich in both cultural heritage and rapidly evolving technological advancements.

As the world faces an increasing need for sustainable practices, this book seeks to address key challenges in various sectors, from architecture and tourism to environmental management and industrial production. The chapters delve into cutting-edge topics, such as the application of Artificial Intelligence (AI) in preserving cultural heritage, the role of architecture in mitigating environmental impacts, and innovative approaches to urban development. They also highlight the practicalities of implementing sustainability in industries like footwear manufacturing and oil production, offering valuable case studies from Indonesia.

One of the central themes of this book is the integration of traditional practices with modern technologies. From the preservation of the Durgā statue at the Prambanan Temple using AI tools to the role of sustainable tourism in Indonesia's tropics, the book emphasizes how technology can enhance, rather than replace, cultural practices and natural environments. In doing so, it encourages a holistic approach to development that respects both historical legacies and contemporary needs.

The chapters also explore the role of system technologies, such as Enterprise Resource Planning (ERP) systems, in improving user satisfaction and operational efficiency across various sectors. Moreover, the book highlights how innovations in design and production, from footwear manufacturing to urban planning, can lead to more sustainable and socially responsible outcomes.

The contributors to this book come from diverse backgrounds, each offering a distinct viewpoint on the issues at hand. Their research reflects a growing commitment to creating solutions that are not only technologically advanced but also culturally sensitive and environmentally sound.

As we navigate the complexities of the 21st century, the knowledge and insights shared in this book serve as a valuable resource for academics, practitioners, and policymakers alike. By presenting a multifaceted view of Indonesia's ongoing efforts to balance progress with sustainability, we hope to inspire further research and innovation that will contribute to a more sustainable, equitable, and prosperous future for all.

Dr. Teena Singh
Bursa, Türkiye – December 2024

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