

Preface

It is with great pleasure that we present the proceedings of the International Eco-Harmony Summit 2024, held in the vibrant city of Pekanbaru, Indonesia, September 26, 2024, under the theme “*Navigating the Threads of Sustainability*.” This summit marked a significant gathering of experts, academics, policymakers, and practitioners who share a unified commitment to advancing sustainability in various facets of society. Through a hybrid format, we welcomed participants from multiple countries, including Indonesia, Malaysia, Algeria, Japan, France, Bahrain, Australia, and Russia, who contributed their diverse perspectives on the challenges and opportunities within the sustainability landscape.

The theme of this year’s summit, “*Navigating the Threads of Sustainability*,” aptly reflects the interconnectedness of economic growth, environmental stewardship, and social equity. Each thread represents the critical areas of focus that are woven into a resilient and sustainable future. As we address complex issues such as climate change, biodiversity loss, and resource management, it becomes imperative to integrate multidisciplinary approaches that foster innovation, empower communities, and support policy shifts.

Within these proceedings, readers will find an extensive collection of research papers and presentations that cover an impressive spectrum of sustainability topics. These range from renewable energy innovations, sustainable agriculture, and water resource management to eco-efficient business practices, public policy frameworks, and strategies for sustainable urban planning. Each contribution showcases the diligence and forward-thinking approaches of our authors, whose research not only advances academic knowledge but also provides practical, implementable solutions for communities and industries alike.

This summit would not have been possible without the invaluable support and guidance from multiple stakeholders. We extend our deepest gratitude to the Direktorat Riset Teknologi dan Pengabdian Masyarakat, Ministry of Education, Culture, Research, and Technology, Indonesia, for their generous support through a conference grant, which enabled us to expand the summit’s reach and impact. We also express heartfelt thanks to the organizing committee, reviewers, and volunteers whose commitment and hard work have been instrumental in the success of this event.

The contributions of all presenters, researchers, and participants have enriched this summit, creating a collaborative environment that has facilitated the exchange of ideas, the building of partnerships, and the envisioning of sustainable futures. It is our hope that these proceedings will serve as a valuable resource for researchers, practitioners, and policymakers, inspiring further study, innovation, and action toward the shared goal of a sustainable planet.

As the editor of these proceedings, we invite readers to delve into the knowledge, insights, and solutions presented within. May these works encourage deeper understanding, provoke new questions, and ultimately drive the impactful changes necessary for sustainable development across the globe. Together, let us continue to navigate the intricate pathways of sustainability, with each effort contributing to a more harmonious balance between humanity and the environment.

Prof. Muhammad Aziz

On behalf of the Organizing Committee and Editorial Team
International Eco-Harmony Summit 2024

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