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Selected Articles from the 8th International Conference on Architecture and Civil Engineering

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Preface

We are honored to present this comprehensive compilation of selected papers from the **8th International Conference on Architecture, and Civil Engineering (ICACE 2024)**. Held with the theme “*Advancing Towards a More Resilient Future of Architecture and Civil Engineering*,” this conference brought together an exceptional assembly of experts, researchers, and practitioners from across the globe. ICACE 2024 served as a vital forum for exchanging knowledge, fostering innovation, and addressing some of the most critical challenges and opportunities facing our disciplines today.

The papers featured in this volume represent a diverse and insightful array of topics, showcasing the depth and breadth of research in civil engineering, architecture, and environmental technology. These contributions span innovative materials, advanced rehabilitation techniques, sustainable urban infrastructure design, green environment, and cutting-edge approaches to environmental restoration. Collectively, they underscore the ever-evolving nature of these fields and highlight the importance of interdisciplinary collaboration in addressing global challenges.

In an era where the global community is grappling with unprecedented issues such as climate change, resource scarcity, and the need for sustainable development, innovation and rehabilitation play pivotal roles in shaping a resilient and equitable future. The discussions and collaborations facilitated by ICACE 2024 were instrumental in charting new paths forward, emphasizing sustainable solutions and technological advancements that align with global development goals.

This compilation is more than a collection of academic papers; it is a testament to the collective efforts and intellectual contributions of a vibrant and dedicated community. Each paper featured here reflects the authors’ rigorous research, creativity, and commitment to advancing the state of knowledge in their respective areas. Their work has not only enriched the discourse within the conference but also laid the groundwork for future explorations and innovations.

We extend our deepest gratitude to all the authors for their invaluable contributions, the reviewers for their critical insights and constructive feedback, and the session chairs for their leadership and guidance throughout the conference. Their collective efforts were crucial to ensuring the high quality and impact of this conference and its proceedings.

Special acknowledgement is also due to the organizing committee, sponsors, and partner institutions for their unwavering support in making ICACE 2024 a resounding success. Their dedication and hard work behind the scenes were instrumental in creating an engaging and fruitful event for all participants.

It is our hope that this volume will serve as an essential resource for researchers, practitioners, policymakers, and students, inspiring continued exploration and collaboration in the fields of civil engineering, architecture, and environmental technology. We believe that the insights and advancements presented here will contribute meaningfully to the ongoing efforts to create a sustainable and rehabilitated built environment for future generations.

As the ICACE continues to grow, we look forward to the continued exchange of ideas and collaboration among professionals and academics from around the world. Together, we can break boundaries, innovate boldly, and rehabilitate thoughtfully to shape a better future for all.

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