

# Preface

2024 4th Asia Environment and Resource Engineering Conference (AERE 2024) was successfully held during October 25-27, 2024 in Singapore. As we gather once again for this prestigious event, we are excited to explore and discuss the latest advancements, innovations, and challenges at the Asia environment and resource engineering. AERE is an annual event initiated since 2021 and will be held every year. We believe that the participants have gained rich knowledge and experience through this conference, and this knowledge and experience will have a positive impact on their work and learning in their respective fields.

The papers included in these proceedings are a compilation of the accepted papers and represent the main outcome of the conference. Each submission underwent rigorous peer review to ensure that only the most outstanding and innovative research results are included in these proceedings

Finally, we would also like to express our gratitude to the organizing committee, session chairs, reviewers, and everyone involved in making this conference a resounding success. Your dedication and hard work have been instrumental in creating an inclusive and enriching environment for the exchange of ideas and the cultivation of new connections.

We hope you enjoy the conference proceedings. AERE 2025 will be held during Oct. 20-22, 2025 in Bangkok, Thailand. We look forward to engaging discussions, memorable encounters, and forging lasting connections during this conference.

AERE 2024 Conference Co-chair  
Pen-Chi Chiang,  
National Taiwan University, Taiwan

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