

# Preface

This edition contains articles based on research results presented at the 3rd International Conference on Multidisciplinary Engineering and Applied Sciences (ICMEAS 2025), held from 30 July to 1 August 2025 in Abuja, Nigeria. This volume presents a selection of research contributions addressing the sustainability of building materials, geotechnics, and project governance within the construction industry. The selected articles reflect the essential integration of material innovation, geotechnical practice, and effective management practices required for resilient and responsible construction.

The edition begins with Green Building Materials, highlighting advances in low-carbon binders, recycled aggregates, and eco-efficient composites that reduce environmental impact while maintaining structural performance and durability. These developments respond directly to global demands for climate-conscious solutions in construction.

The chapter, Geotechnical Engineering, focuses on river sediment analysis, soil behaviour, and stabilisation methods, with an emphasis on enhancing the safety and long-term stability of construction objects.

The final chapter addresses Construction Management, underscoring strategic planning, cost control, scheduling optimisation, digital project coordination, and risk management in contemporary construction practice. Efficient project management frameworks are presented as critical enablers for delivering sustainable and technically sound infrastructure projects.

The volume is intended to support researchers, engineers, and project leaders who are advancing resilient, environmentally responsible built environments.

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