

Preface

We are pleased to present this publication comprising the results of the International Conference on Applied Technology (ICAT) 2024 held in conjunction with the Seminar Nasional Riset dan Teknologi Terapan XI on November 14, 2024. With the theme "Green Horizons: Building Resilient Futures through Sustainable Agility", the meeting provided a vital platform for researchers, industry leaders, and innovators to engage in forward-thinking dialogue at the intersection of technology and sustainability.

As humanity confronts unprecedented environmental challenges, this conference emphasizes sustainable agility underscoring the importance of adaptive strategies and innovative solutions in fostering resilience within our communities and industries. Our commitment to this subject reflects a shared understanding of the need to not only sustain but also to adapt in an ever-evolving global landscape. Contributions to the conference demonstrated how technology can be harnessed to meet the demands of our changing world, reinforcing the value of agility and resilience in achieving a sustainable future.

This edition showcases cutting-edge research and practical applications across diverse fields, offering insights and inspiration for those committed to building resilient, sustainable futures. We extend our gratitude to all contributors, reviewers, and organizers whose hard work and dedication made this event possible. We hope this compilation will serve as a valuable resource for those seeking to lead with innovation and sustainability at the forefront of their efforts.

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