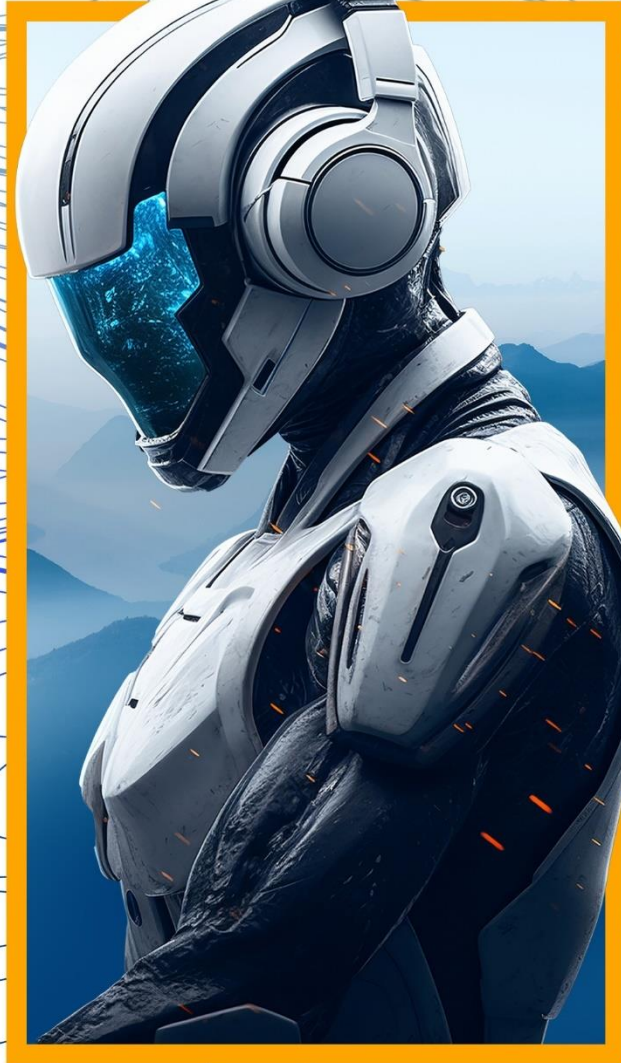




ERU

SYMPOSIUM 2024

Proceedings 10th -11th December 2024

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Engineering Research Unit
University of Moratuwa
Sri Lanka

ERUS2024

ENGINEERING RESEARCH UNIT SYMPOSIUM

2024

10th and 11th of December 2024

University of Moratuwa.

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Message from the Symposium Chair



Dr. J.R. Gamage
University of Moratuwa,
Sri Lanka

Dear Colleagues, Researchers, and Industry Professionals,

Welcome to the Engineering Research Unit Symposium (ERUS) 2024. It is an honour to chair the ERU Symposium for the second consecutive year. This year's symposium stands out with its diverse pool of contributors, including authors representing international affiliations from the United Kingdom, Germany, China, and India. Moreover, the participation of six local universities has added immense value and fostered a sense of collaboration across institutions.

The two-day event featured poster presentations on Day 1 and oral presentations from the best paper nominees on Day 2, providing young researchers an excellent platform to present their findings with confidence. I believe that the best poster and best paper awards were a great encouragement for the researchers to build confidence among them to reach greater heights of their research. The symposium not only empowered researchers to share their work but also facilitated meaningful interactions and networking opportunities among participants. We were particularly encouraged by the presence of industry stakeholders, whose positive feedback underscored the practical relevance and quality of the research showcased.

I extend my sincere gratitude to the organizing committee and the dedicated staff of the University of Moratuwa Library for their tireless efforts in making this event a success and ensuring the proceedings were promptly finalized for online publication. Finally, on behalf of the Engineering Research Unit, I would like to thank all the authors, reviewers, organizers, and participants for their invaluable contributions to the success of ERUS2024. Your continued support and enthusiasm are what make this symposium a vibrant platform for academic excellence and collaboration.

I believe you had an inspiring and productive experience at the ERU Symposium 2024.

Thank you.

Sincerely,

Dr JR Gamage
Symposium Chair
ERUS2024
University of Moratuwa.

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EXTENDED ABSTRACTS