



INTERNATIONAL INNOVATIVE RESEARCH AND INDUSTRIAL DIALOGUE  
*Bridging University And Industries Through Research And Innovation*

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# PROCEEDINGS OF INTERNATIONAL INNOVATIVE RESEARCH & INDUSTRIAL DIALOGUE (IIRID) 2024

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# PROCEEDINGS OF INTERNATIONAL INNOVATIVE RESEARCH & INDUSTRIAL DIALOGUE (IIRID) 2024

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## EDITORIAL PREFACE

This proceeding features a selection of 47 papers from the Innovative Research and Industrial Dialogue 2024 (iIRID'24), which was held virtually at the Faculty of Industrial and Manufacturing Technology and Engineering, Universiti Teknikal Malaysia Melaka (UTeM) in Melaka, Malaysia.

Under the theme “Bridging University and Industries through Research and Innovation,” iIRID'24 offered a valuable platform for academics, graduate students, and industry professionals, particularly in engineering and technology, to share their research findings. The conference aimed to strengthen the connection between academic research and industry needs, addressing key challenges and fostering the exchange of ideas. This effort is part of a broader initiative to close the gap between academia and industry in Malaysia, meeting the increasing demand for practical solutions to real-world engineering problems.

The success of iIRID'24 represents a significant step forward in encouraging collaboration between researchers from both universities and industries. We hope this proceeding will serve as a useful resource for ongoing research and inspire further progress. As editors-in-chief, we are deeply grateful to the editorial board and review members for their essential work in selecting and evaluating the papers. We also thank the Publication Committee and Secretariat for their dedicated efforts in putting this volume together. Their collaborative spirit and commitment have been instrumental in bringing this proceeding to fruition.

Furthermore, we extend our deep appreciation to the University, Faculty, and sponsors for their steadfast support throughout this event. Their backing has been crucial in making iIRID'24 a remarkable success.

Thank you for your participation and contributions.

*Mohd Yuhazri Bin Yaakob*

*Nurul Hajar Binti Mohd Yusoff*

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