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School of Mechanical Engineering, Universiti Sains Malaysia

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Active Grants

ASEAN-India Collaborative Project
Title: Development of Titanium-steel and Nickel-titanium bimetallic structures through additive manufacturing for structural and aerospace applications

Preface

Appointment as a conference chairman is widely regarded as a significant honor and recognition of expertise, leadership, and contributions to their field. Such an appointment is often seen as a career milestone that validates the individual's standing among their peers. Serving as a conference general chairman is a high-stakes, prestigious, and intensely demanding leadership role that serves as the figurehead for the entire organizing committee. It is not an easy role and involves balancing administrative oversight, strategic vision, and navigating complex interpersonal dynamics between 6 to 12 months period.

The School of Mechanical Engineering, Universiti Sains Malaysia Tuanku Syed Sirajuddin Engineering Campus is organizing the 2nd International Conference on Recent Advances in Industrial Engineering and Manufacturing (ICRAIEM 2026). The last conference was held in 2018. The two-day conference event will cover technical programs including keynote lectures and technical paper presentations. The event is in conjunction with 25th anniversary of the campus.

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Wishing for successful and meaningful event for ICRAIEM 2026.

Congratulations Aimin

The 9th of April 2026 is a big and memorable day to Jiang Aimin. After spending almost 3 years, today he is conditionally completing his PhD journey. His first question to me was how to complete his study in 3 years. Now he realized his dream. Not just complete within 3 years, he also managed to publish in a very good journal, one of it is in Progress in Additive Manufacturing journal, among the top journal publish papers related to additive manufacturing, Congratulation Jiang Aimin. The title of his thesis is Interfacial Microstructure Formation Mechanisms and Control Strategies of IN718/18NI300 Dissimilar Metals Fabricated by CMT-Based Wire Arc Additive Manufacturing

LIST OF PUBLICATIONS

1. Aimin, J., Abdullah, A. B. & Pramodkumar, S. (2024). Research progress on arc-based additive repair (AAR) technology for metal parts. Engineering Research Express, 6, 032401.
2. Aimin, J., Abdullah, A. B. & Mohd Yusuf, S. (2025). Microstructures and mechanical properties of 316LSi/IN625 FGMs manufactured by CMT-WAAM. Advances in Mechanical Engineering, 17, 16878132251401756.
3. Aimin, J. & Abdullah, A. B. (2026). Multiscale Regulation of Interfacial Behavior in CMT of Dissimilar IN718–18Ni300 Bimetal under Different Deposition Strategies. Progress in Additive Manufacturing, 11, 2747-2764

Welcome Baqer

Welcome Mr. Habib Baqer Salem to the Metal Forming Research Lab USM Tuanku Syed Sirajuddin Engineering Campus. He is from Kuwait and will further his PhD study effective 1st of April 2026. His project is on optimization of springback in sheet metal forming process and effect of precut holes.

To date, members of MFRL came from various countries including China, India, Iraq, Nigeria, Kuwait and also local students from Malaysia. They came from different backgrounds, academician, engineer, researcher and vocational trainer.

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IN COMING EVENT