UNIVERSITI TEKNOLOGI MARA

# 5th I-CReST 2025

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**SYNERGY FOR FUTURE SUSTAINABILITY:**
**BRIDGING SCIENCE, TECHNOLOGY AND HUMANITIES**

# *Abstract Book*

**UNIVERSITI TEKNOLOGI MARA**
**CAWANGAN SELANGOR, KAMPUS DENGKIL**
**MALAYSIA**

**13th SEPTEMBER 2025**

ORGANISED BY: Centre of Foundation Studies

STRATEGIC PARTNER: UiTM Global

IN COLLABORATION WITH: UTM

# I-CReST 2025:145-105 – Classifying Emotional Responses of Children with Autism Towards Robot Movement: A Proposed Framework Based on a Preliminary Case Study

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## ABSTRACT

Children with Autism Spectrum Disorder (ASD) face unique challenges in recognizing, processing, and expressing emotions. Recent technological interventions using robots provide promising avenues to support these individuals. By integrating the Kansei Engineering approach and the KJ Method, this study proposes a refined framework for classifying emotional responses elicited by various robot movement patterns such as circular, forward, forward left, forward right, reverse left and reverse right based on previous preliminary case study. These theoretical underpinnings, describe methodological approaches, and discuss the implications for designing adaptive robot systems that enhance social communication and educational outcomes for children with ASD. While based on preliminary case study, the proposed framework provides valuable insights into interpreting emotional responses in children with ASD and can act as useful reference for incorporating robots into their daily routines

**Keywords:** Autism; robot movement; KJ Method; Emotion classification