



**IEEE 4th International Conference on Computing and Machine
Intelligence**
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Central Michigan University

CERTIFICATE

of Participation

This certificate is presented to
Paweł Kudela

**For participating and presenting the
paper titled:**

**Multi-task learning for forward prediction of
dispersion diagrams in 2D acoustic metamaterials**

A handwritten signature in blue ink, appearing to be "Ah".

General Chair
Ahmed Abdelgawad, PhD