



**5th International Conference on Data Engineering  
and Communication Technology  
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**Kuala Lumpur, Malaysia**

# **CERTIFICATE OF APPRECIATION**

**This is to certify that  
SHRIRAAM NAGARAJAN  
of**

**ASIA PACIFIC UNIVERSITY OF TECHNOLOGY & INNOVATION**

**participated and presented a paper titled**

**INTEGRATING CLOUD-BASED CROWDSOURCING AND  
INTERACTIVE LEARNING FOR ENHANCED CODE SMELL  
IDENTIFICATION AND RESOLUTION**

**Prof Jinshan Tang**

**Conference Chair**

**Prof Dr Ho Chin Kuan**

**General Chair**