Appendix 2.2

Report of International Conference Presentation

Name: (Presenter)	Van Phuc Hoang
Affiliation:	Institute of System Integration, Le Quy Don Technical University, Vietnam
Project Title:	Artificial Intelligence Powered Comprehensive Cyber-Security for Smart Healthcare Systems (AIPOSH)
Name of International Conference: (Link to website)	The 8th International Conference on AI in Information and Communication (ICAIIC 2026) Website: https://icaiic.org
Title of Research Paper:	MT-MO: Efficient and Robust Non-Profiled Side-Channel Analysis Using Multitask Learning
Name of all Co-authors (if any)	Huy-Thanh Le, Ngoc-Tuan Do, Xuan-Nam Tran

Comments or feedback received at the conference:

There are two comments after presentation including:

- The topic is very interesting with a new approach. It should be extended with more experimental results.
- The informaion of computation complexity should be considered as well.

Question: How the dataset for experiments was collected?

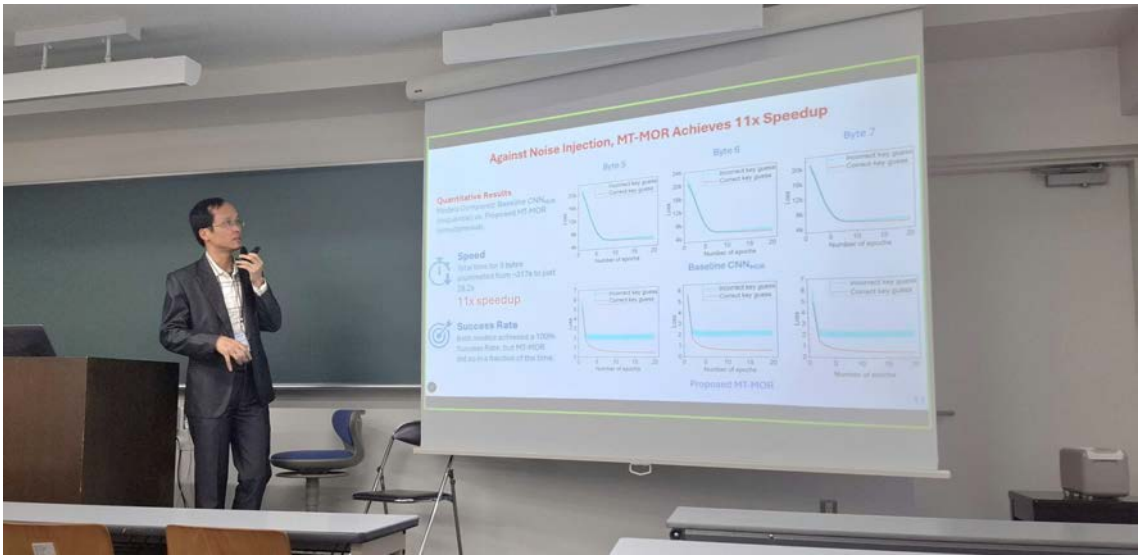
Answer: We used both sources of dataset obtained by the ChipWhisperer (CW) board and the published ASCAD dataset.

Contribution to the project:

This paper contributes to the project by providing an efficient and robust non-profiled side channel analysis (SCA) technique that leverages a multitask deep learning neural network and transfer learning to enhance the performance of non-profiled SCA on targets with similar properties to the original target. Specifically, by leveraging a shared feature extraction backbone with vectorized output heads, the proposed model simultaneously recovers multiple key bytes in a single training session which is useful for evaluating the security level of IoT devices in the project. The paper contributes significantly to the project by providing a new method for a multitask deep learning based security evaluation of cryptographic algorithm in IoT based smart healthcare systems.

Photos

(Presentation)



(Questions and comments)

[Required Documents]

A) Presentation Materials (e.g., PPT slides)

B) Final Program of the conference

Reporter: Van Phuc Hoang

Date: March 01, 2026