ICT Virtual Organization of ASEAN Institutes and NICT (ASEAN IVO)

Appendix 2.2

Report of International Conference Presentation

Name: (Presenter)	Hay Mar Soe Naing
Affiliation:	University of Computer Studies, Yangon, Myanmar
Project Title:	Spoof Detection for Automatic Speaker Verification
Name of International Conference: (Link to website)	27th Conference of the Oriental COCOSDA, 2024 https://ococosda2024.github.io/
Title of Research Paper:	UCSYSpoof: A Myanmar Language Dataset for Voice Spoofing Detection
Name of all Co-authors (if any)	Win Pa Pa, Aye Mya Hlaing, Myat Aye Aye Aung, Kasorn Galajit, Candy Olivia Mawalim

Comments or feedback received at the conference:

1. The paper offers a valuable contribution to spoof detection research by creating a Myanmar-specific dataset and exploring multiple speech synthesis and conversion techniques. The technical implementation is sound, and the results demonstrate the effectiveness of the dataset.

2. This The paper presents a novel dataset, UCSYSpoof, which is tailored to spoofing detection for the Myanmar language, filling a gap where such datasets have been lacking. The generation of spoofed speech using five distinct approaches—including end-to-end speech synthesis, vocoder-based techniques, and GMM-based voice conversion methods—is an innovative contribution. This dataset enables more focused research in low-resource languages like Myanmar, which is not commonly covered in existing spoof detection datasets.

Contribution to the project:

Proposed a new voice spoofing dataset for Myanmar language by using various spoofing methods, enhancing the effectiveness of speaker verification with the newly developed UCSYSpoof dataset for the Myanmar language.

This conference covers the scope of -

Audio, Speech and Language Processing

Datasets, Benchmark Systems, Models and Shared Tasks

Multimedia, Biomedical and Health Informatics

Information Forensics and Security

Photos
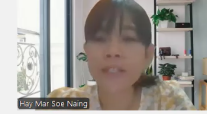
UCSYSpoof: A Myanmar Language Dataset for Voice Spoofing Detection

Win Pa Pa, Aye Mya Hlaing, Myat Aye Aye Aung Kasorn Galajit, Candy Olivia Mawalim
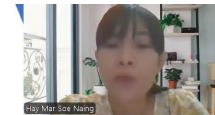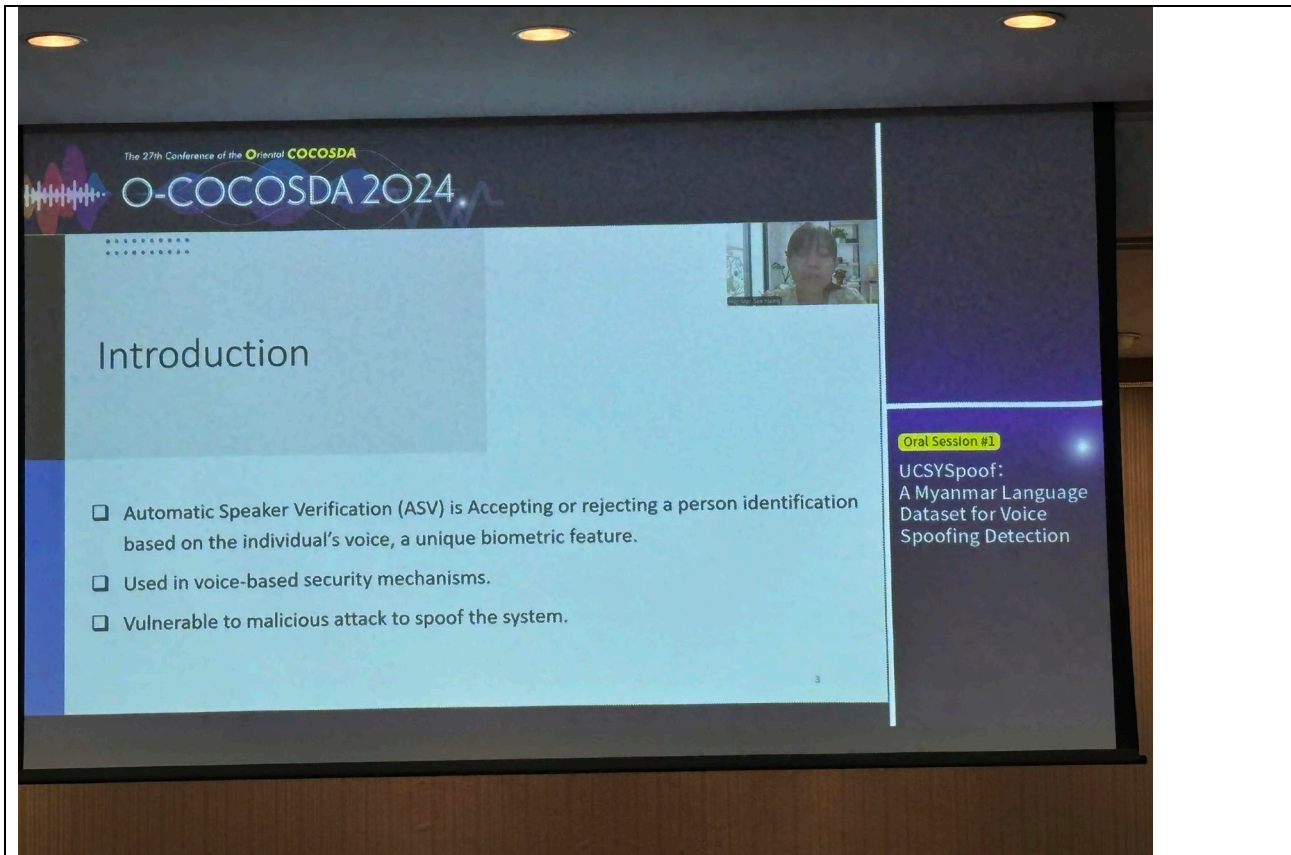
Presented By :

Hay Mar Soe Naing

University of Computer Studies, Yangon

Myanmar

Date : 17th, Oct 2024

Statistic of UCSYSPOOF Dataset

Label	Subset Type	No. of Speaker	No. of Utterance
Genuine	Genuine	3 (4K utts/each)	12,000
Spoofed	Vocoder-based	3	23,932
	FreeVC-based	3	24,000
	Text-to-speech	1	8,000
	GMM VC	2	8,000
	GMM DIFFVC	2	8,000

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[Required Documents]

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

B) Final Program of the conference

Reporter: Hay Mar Soe Naing

Date: 22/10/2024