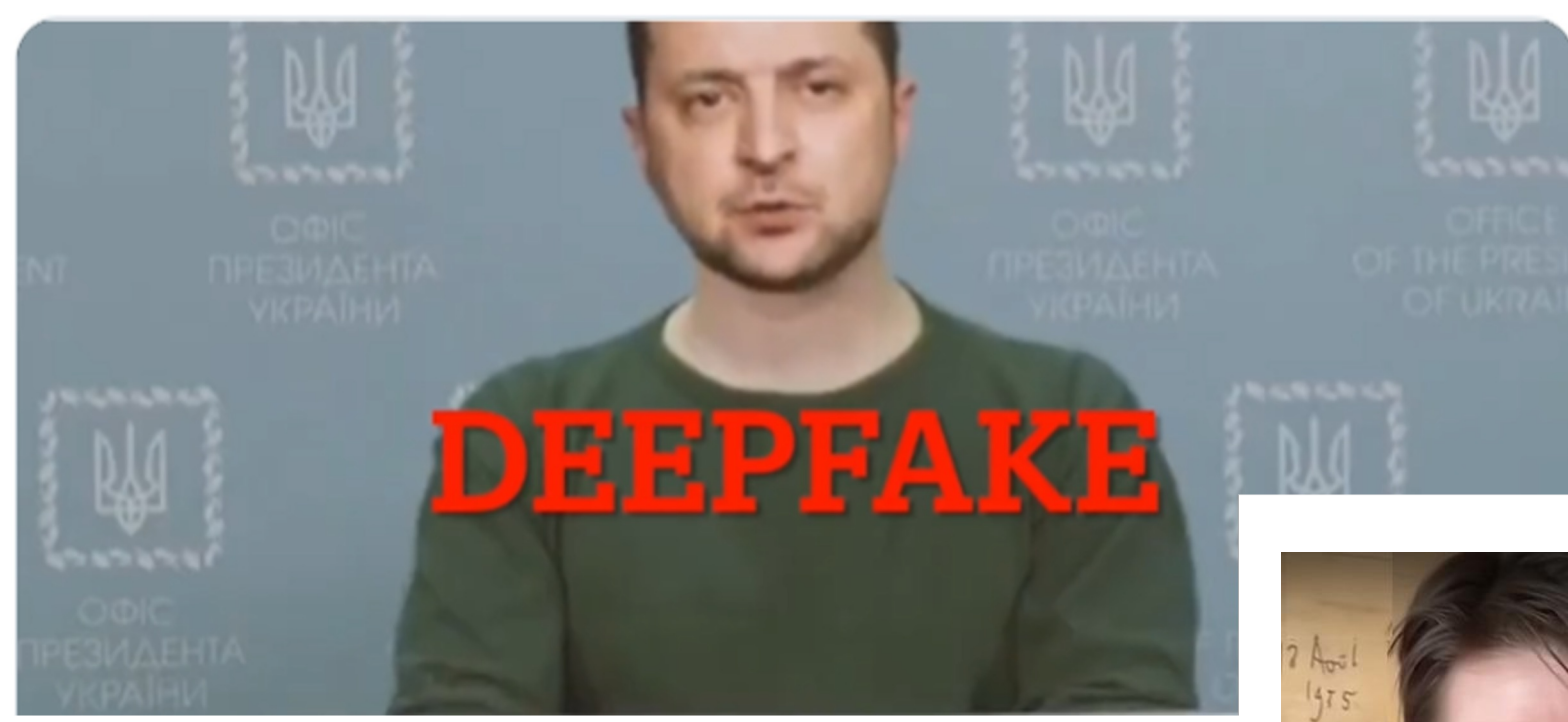


Preventing Fake News through Live Speech Signature

Irtaza Shahid, Nirupam Roy

1. Problem Statement

Deepfake of Ukrainian President Volodymyr calling on his soldiers to lay down weapons



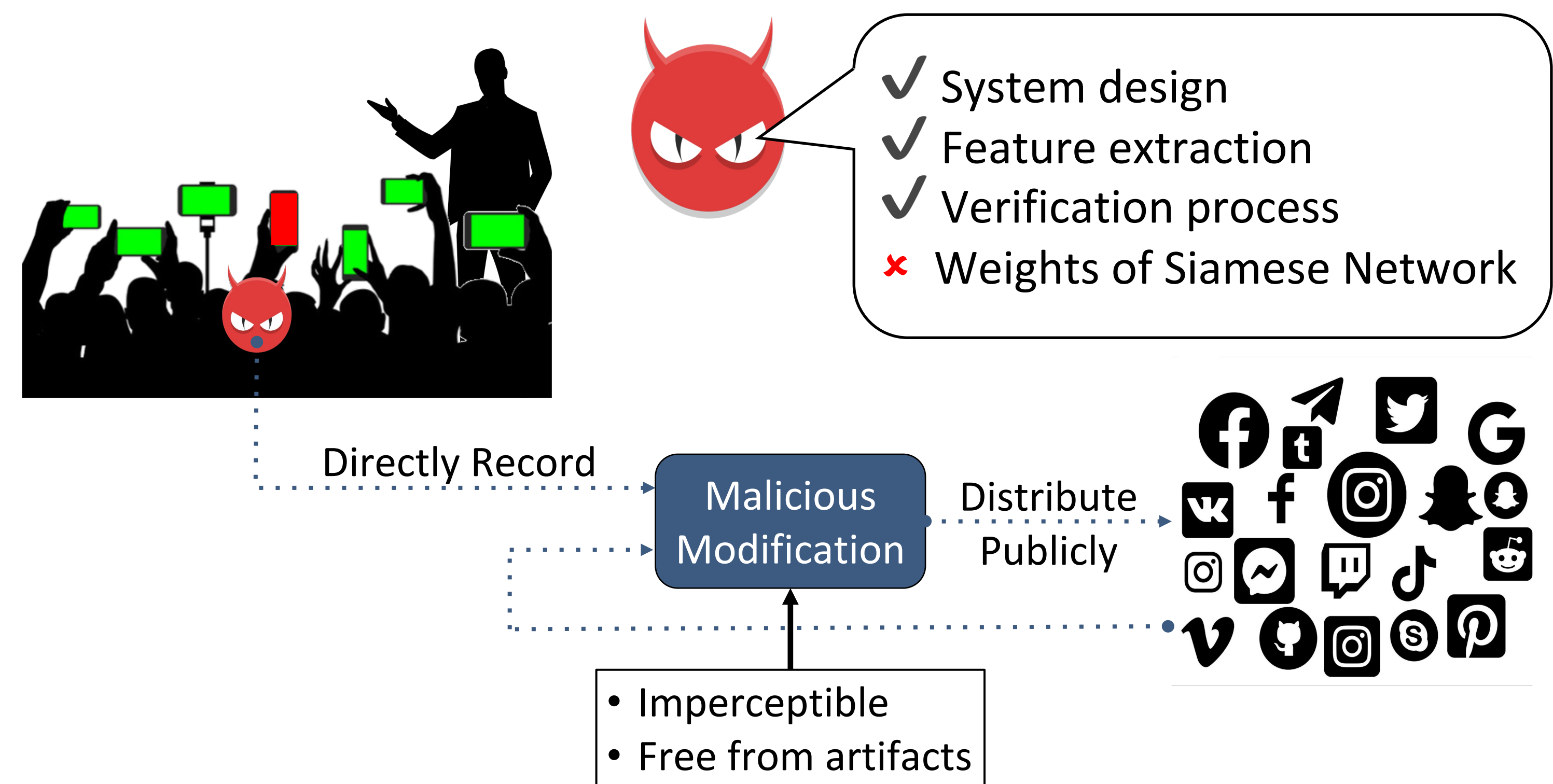
Next Challenge is navigating Deepfakes



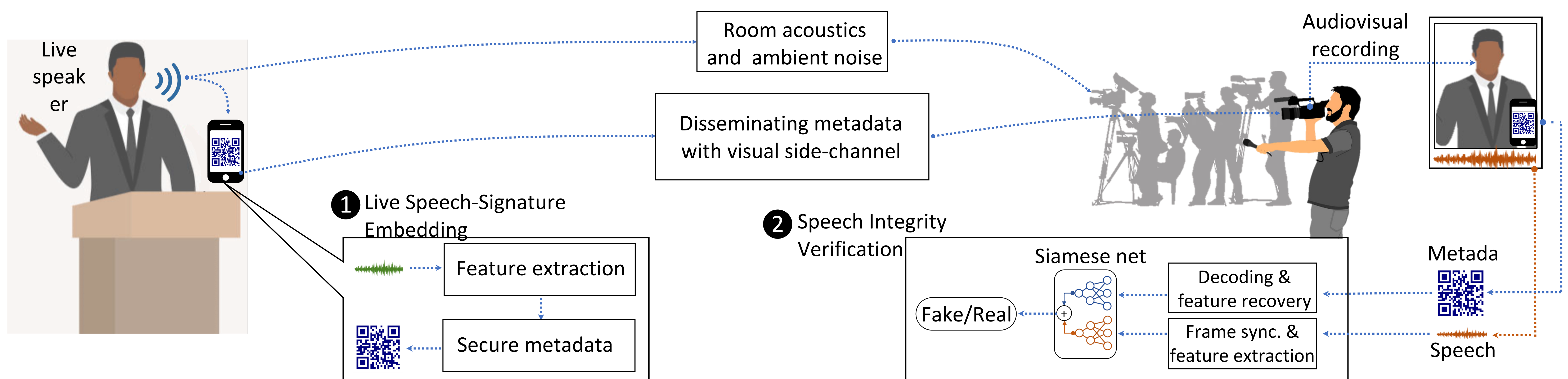
Fake video makes Pelosi slur words



2. Adversary Model

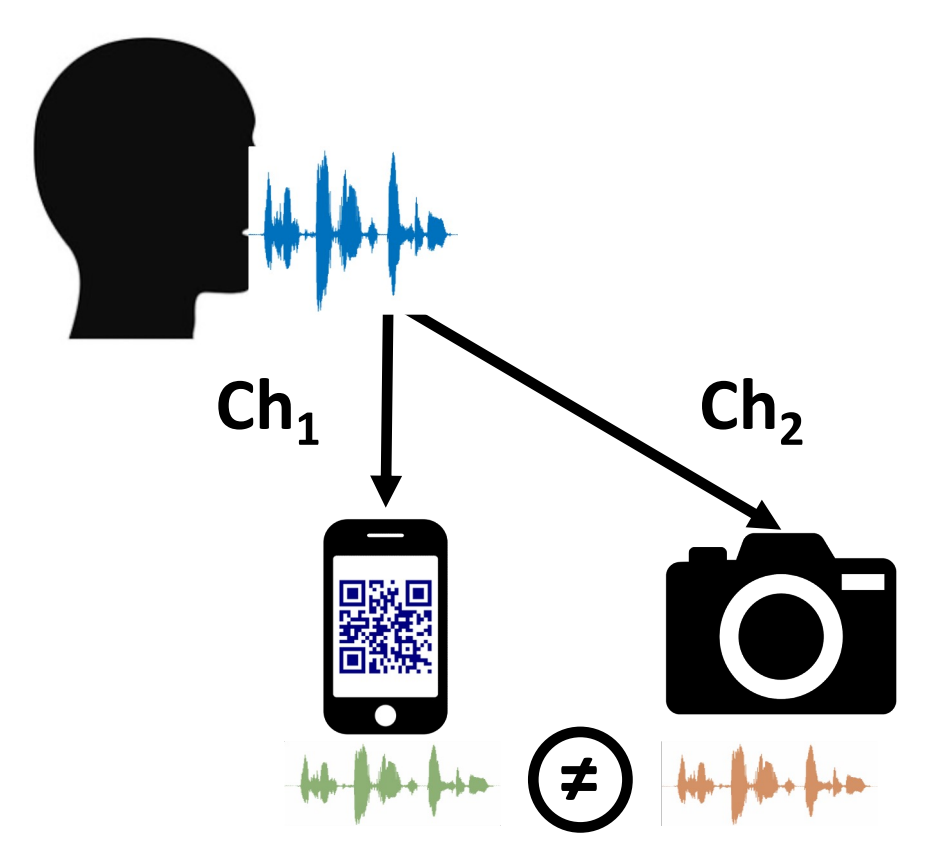


3. System Design

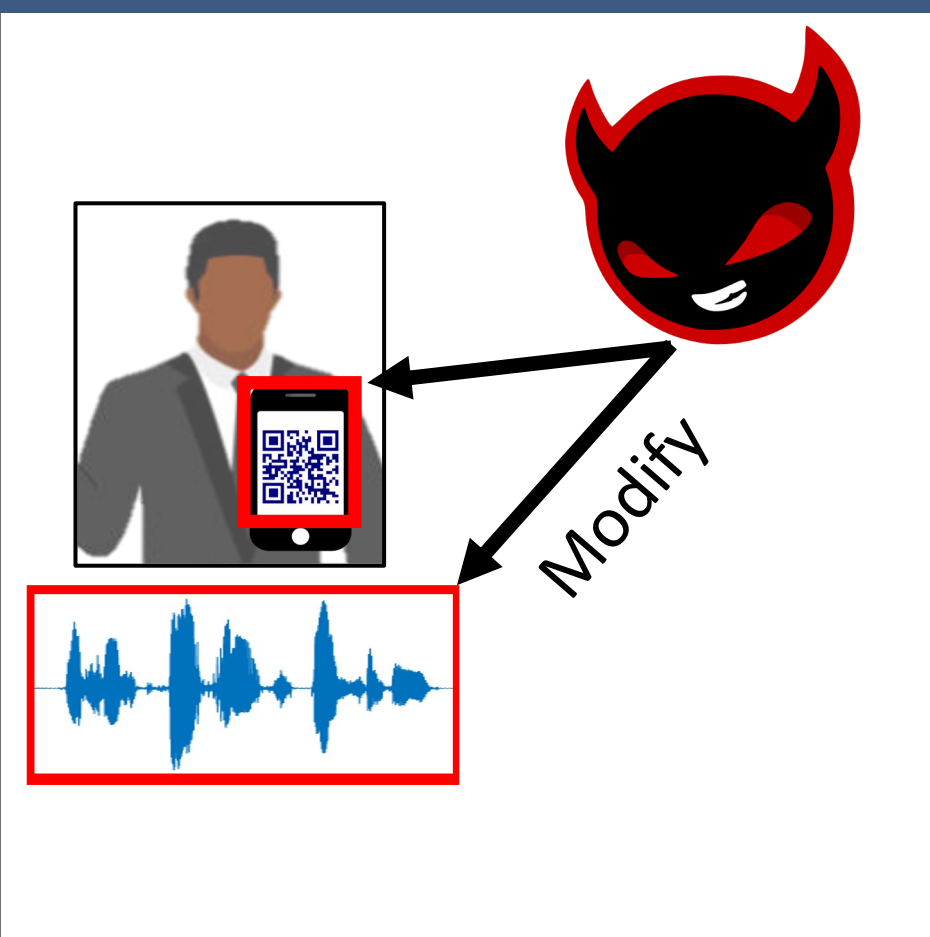


4. Challenges

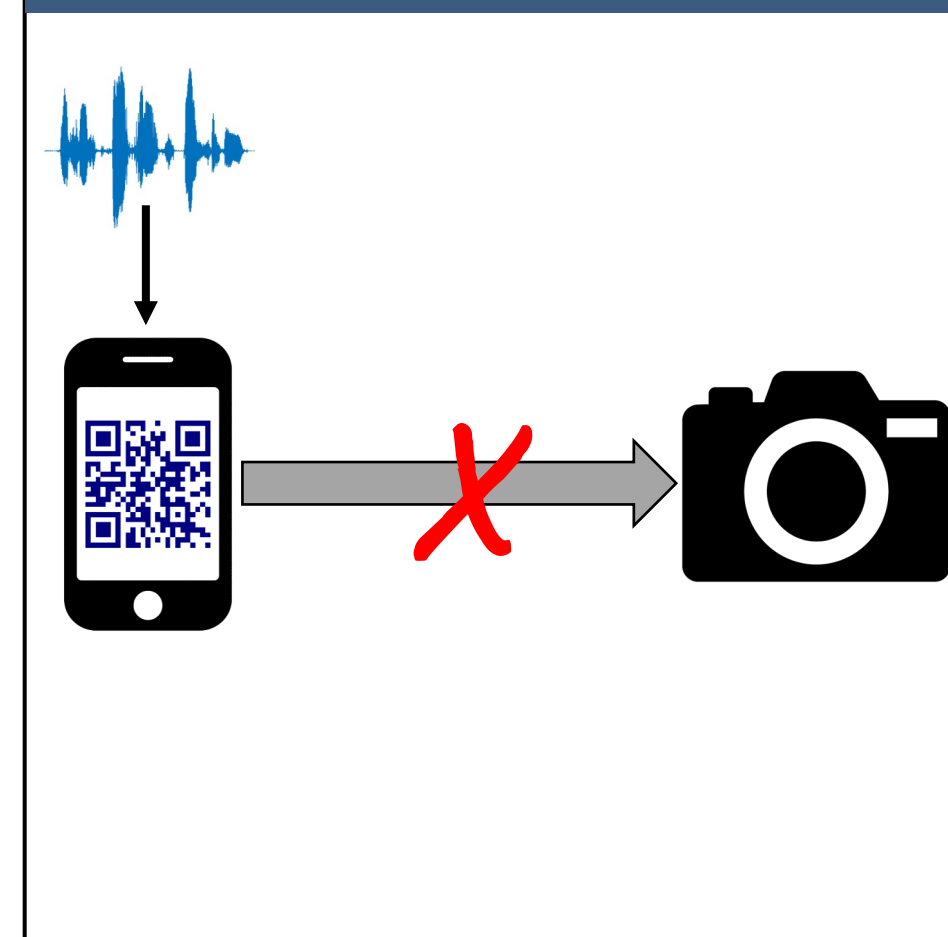
Channel Distortion



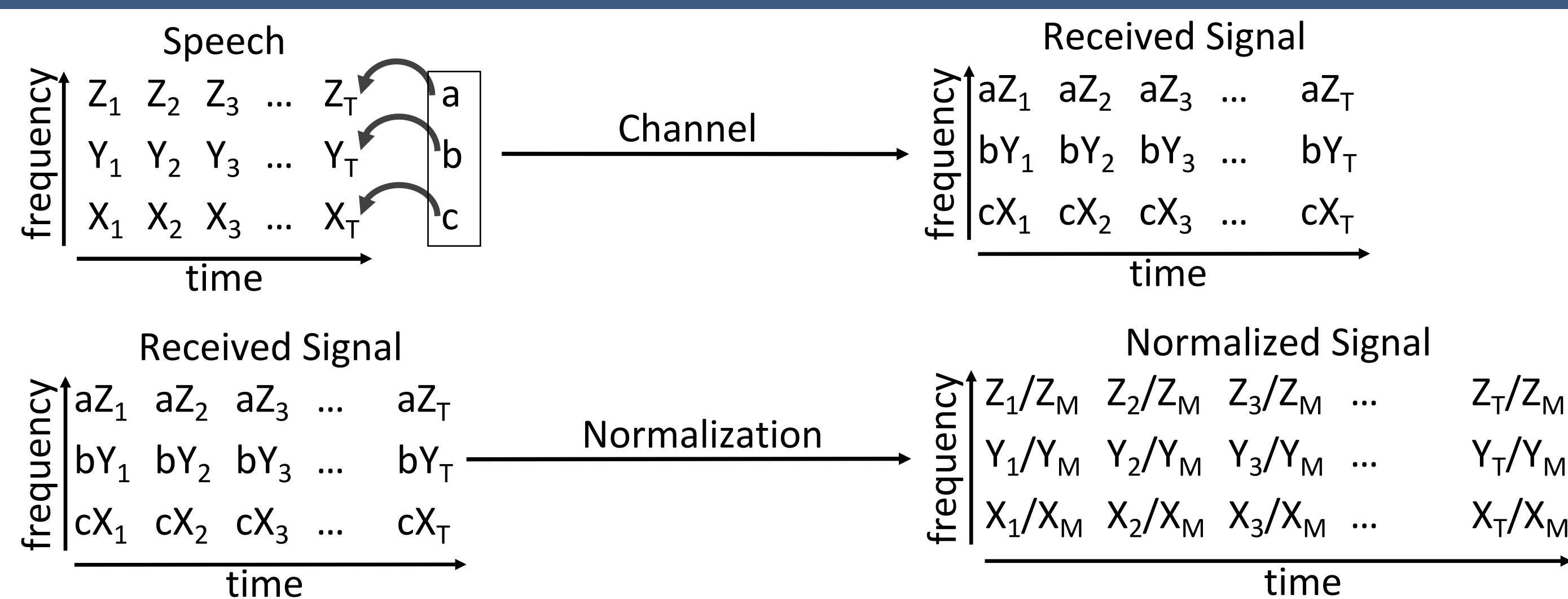
Adversary Attack



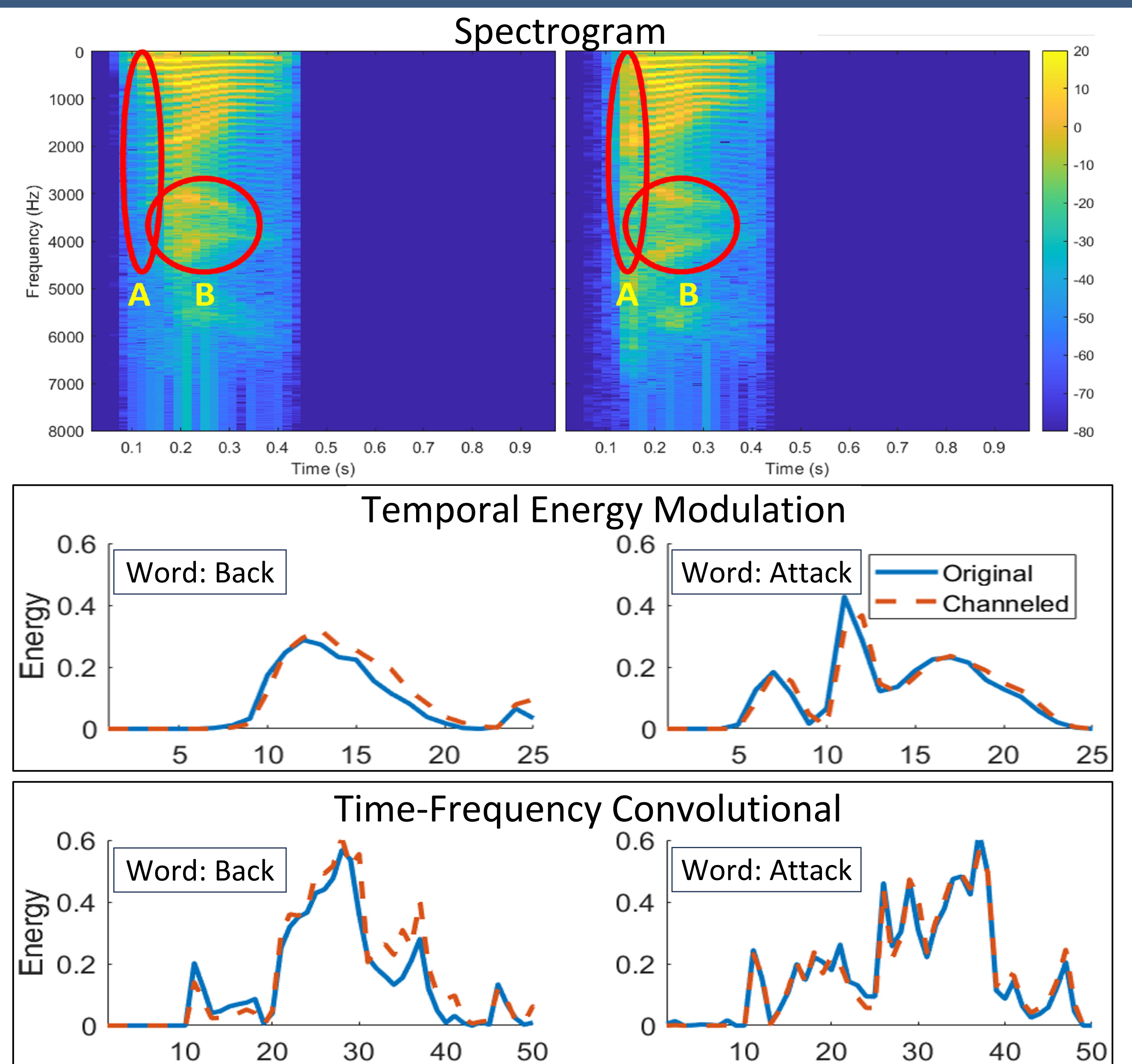
Limited Data Rate



5. Channel Normalization



6. Feature Extraction



7. Experimental Setup and Evaluations

