# Evaluating the Effectiveness of Attack-Agnostic Features for Morphing Attack Detection

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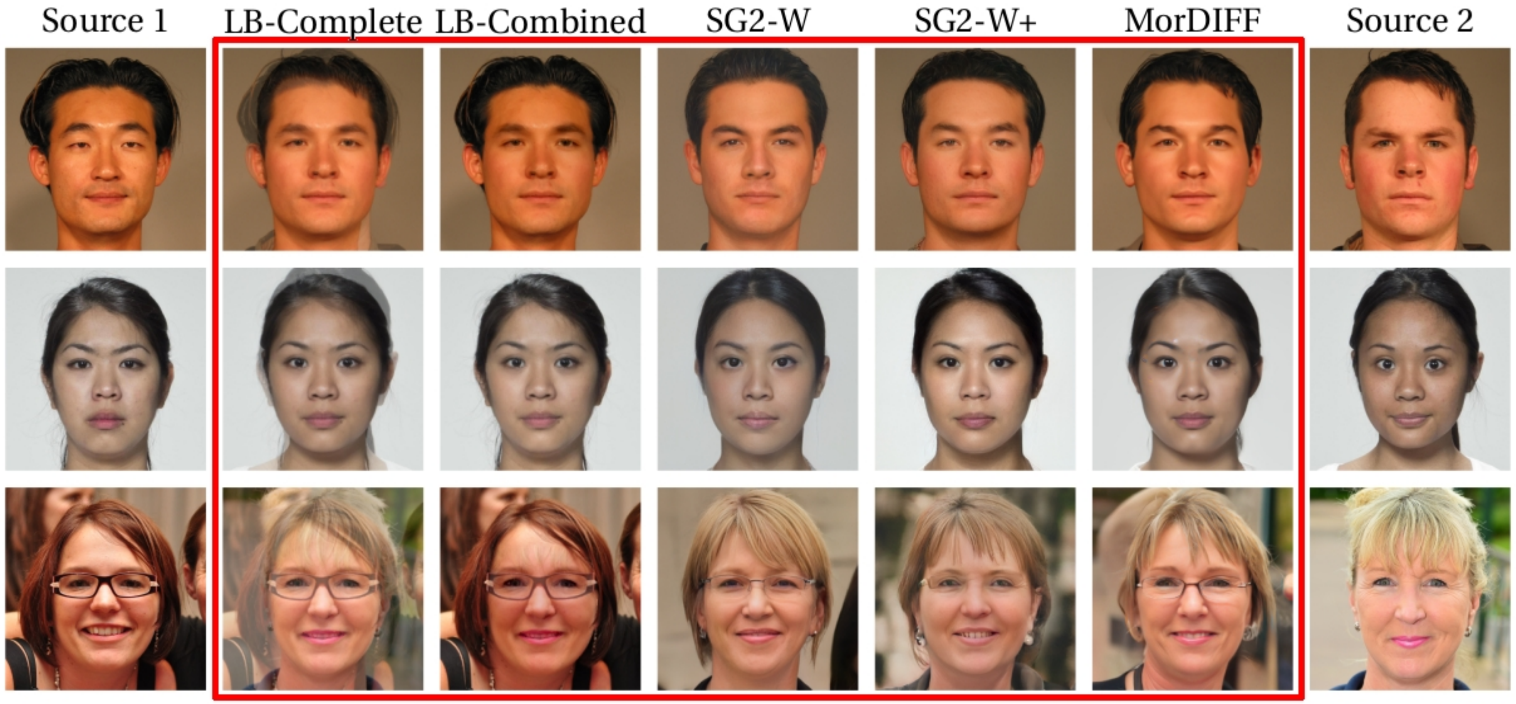
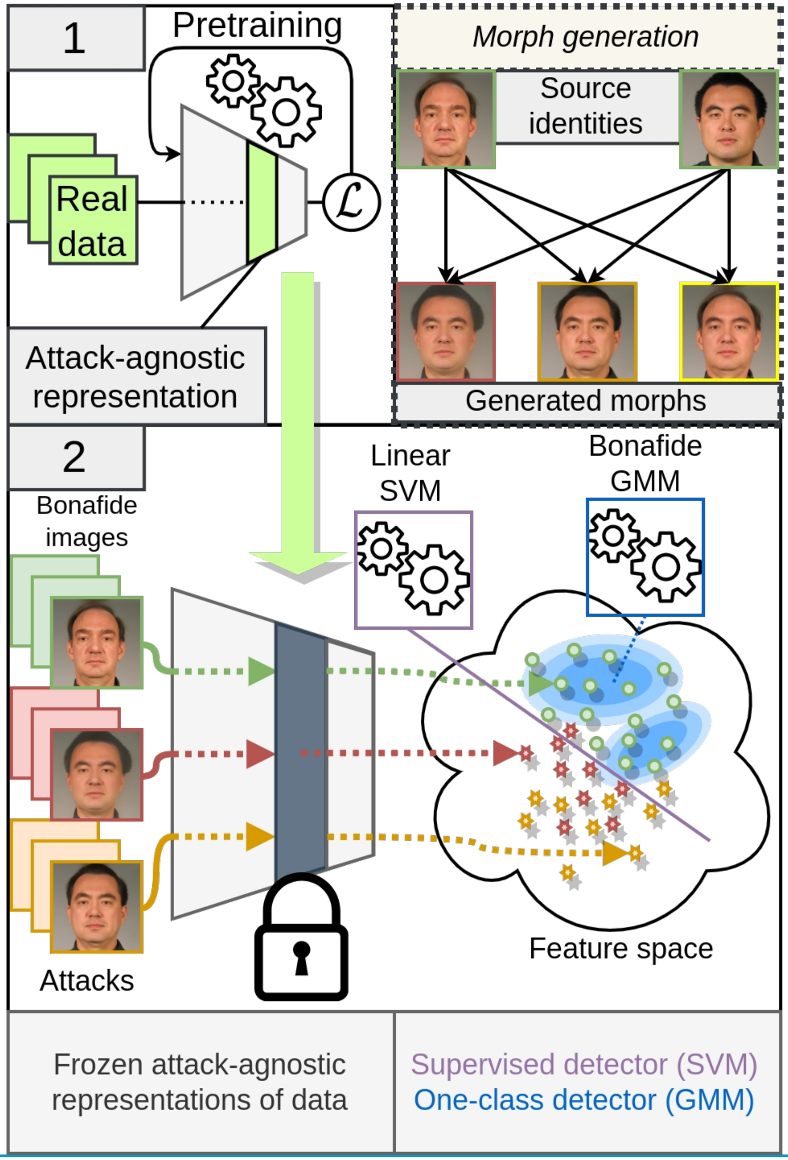


# Problematic & Methodology

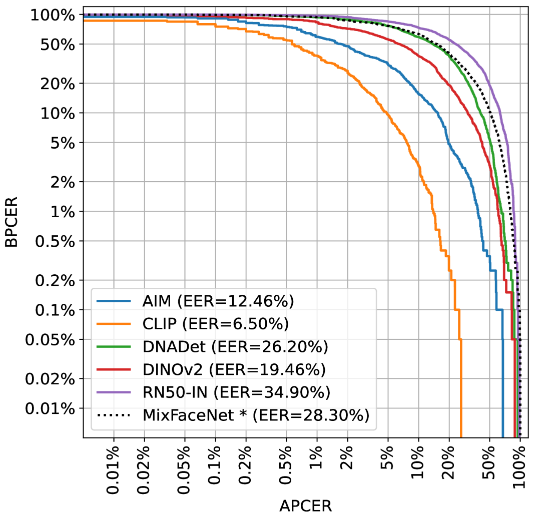
- Morphing attacks: threat on passport security
- Attack diversification (GAN, Diffusion) challenges detectors

- Attack-agnostic features (CLIP, DINO)
- Downstream supervised (SVM) and one-class (GMM) detectors
- Evaluate generalization capability

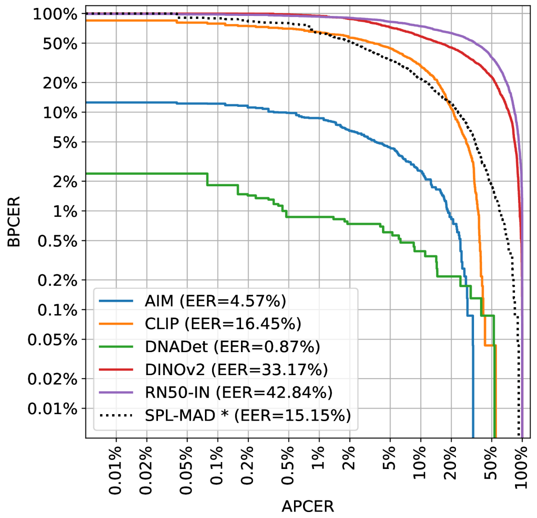


# Results

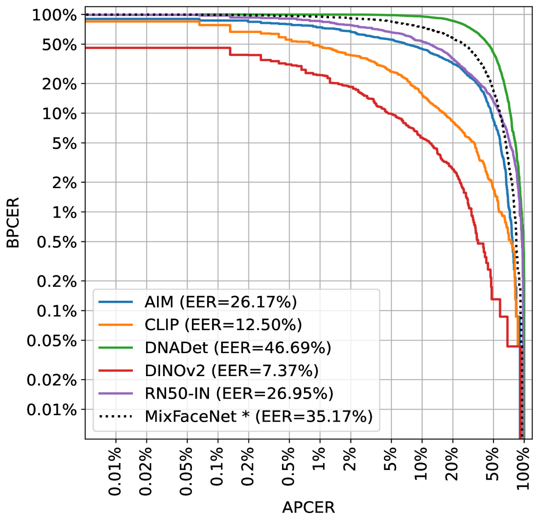
Generalization to unseen attacks




One-class detection performance




Generalization to print-scan domain




- Our approach outperforms CNNs in most scenarios
- CLIP : consistent across all scenarios
- DINO : strong for print-scan generalization
- One model enable <1% EER in one-class detection (digital domain)!

# Thank you!