

THE HEBREW UNIVERSITY OF JERUSALEM

Facial Expression Recognition

Project members

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SOLUTION

A facial expression recognition system that will voice the word equivalent to a facial expression could improve the children's quality of life.



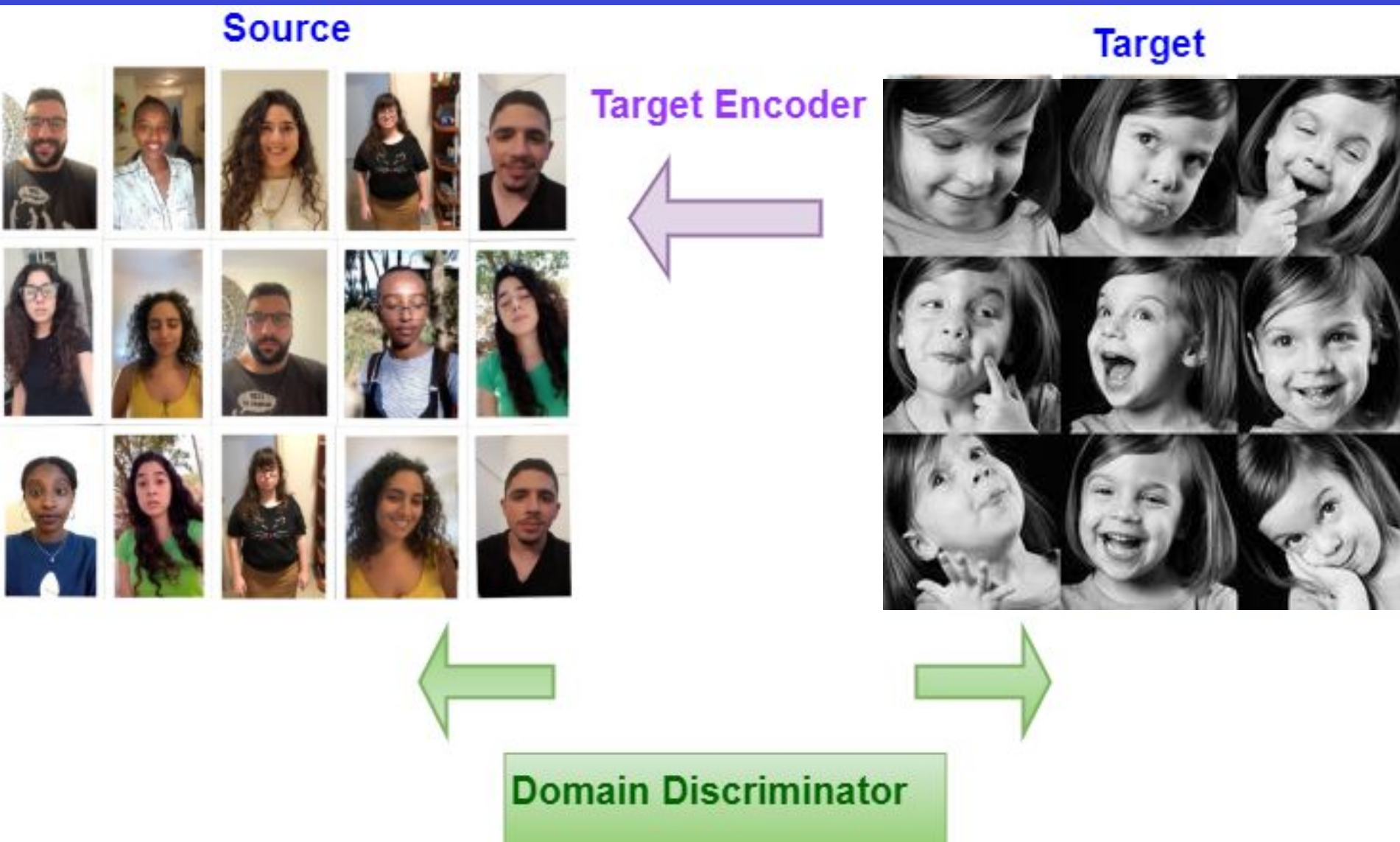
CHALLENGE

Find an alternative solution that doesn't rely on images per facial expression for every child.

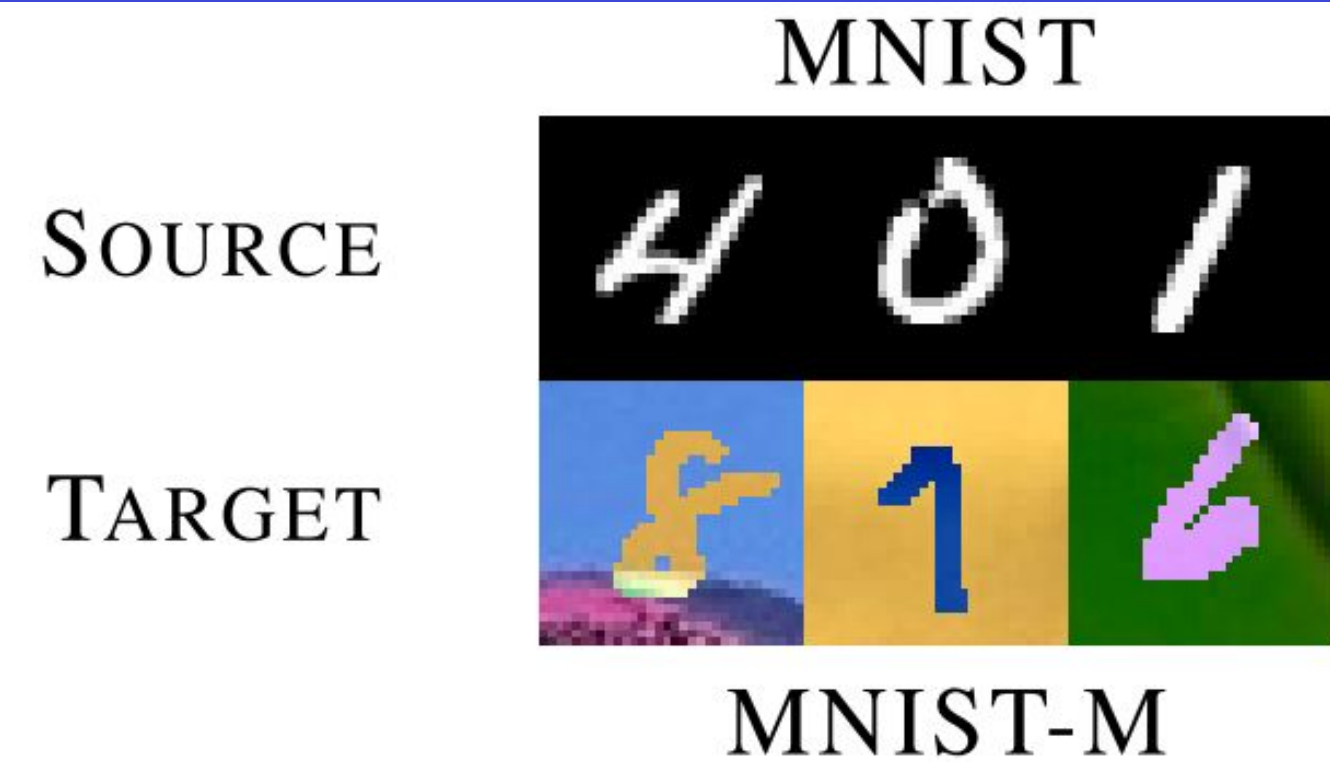


APPROACH

Recognize facial expression



Recognize numbers

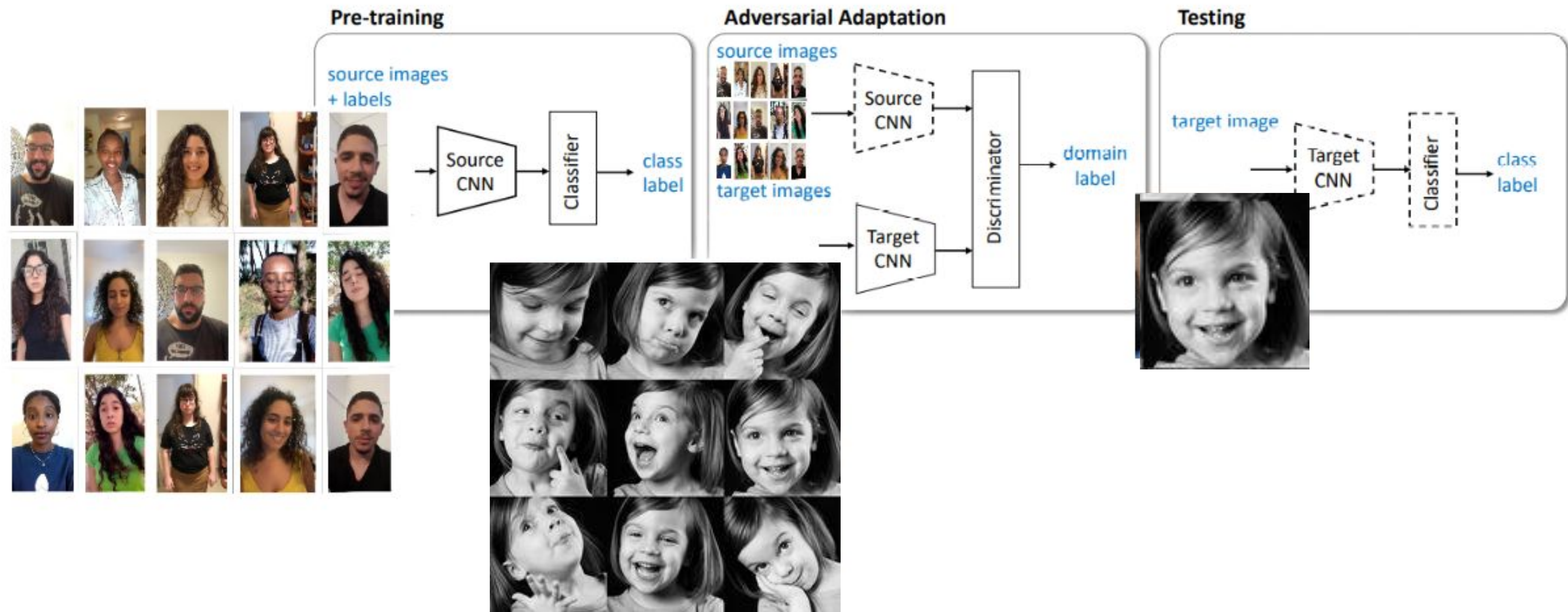


Unsupervised DA setting: We assume that there are **no available labels** for the target domain.

Why would a CNN trained on MNIST not generalize to MNIST-M?

Intuition: We need a way to force our CNN to learn features of the digit **shapes** only, not color distributions.

DESCRIPTION



Last year accuracy vs our solution accuracy

