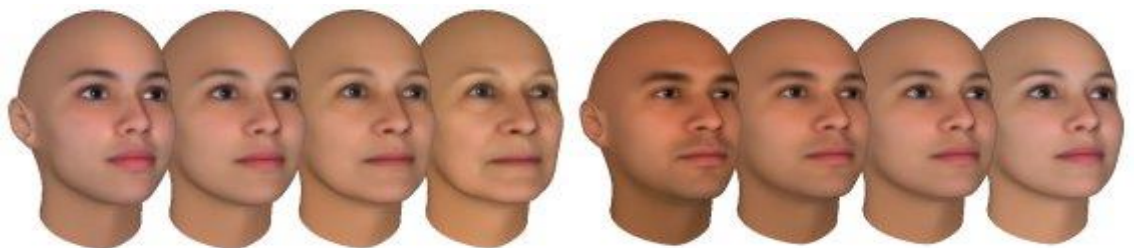


About dataset

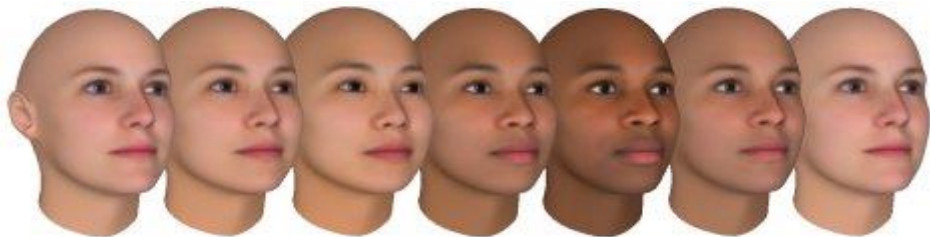
First, let’s briefly show the synthetic dataset in our paper.

We created synthetic data sets based on FaceGen



Age Morphing

Gender Morphing





Race Morphing

Gender morphing: (Male and Female)

<1>**Race Morphing:** (Male)

	African		East Asian
-------------------------------------------------------------------------------------	---------	--------------------------------------------------------------------------------------	------------



	South Asian		European
-----------------------------------------------------------------------------------	-------------	------------------------------------------------------------------------------------	----------






Female:

	African		East Asian
	South Asian		European



<2> Hair Morphing:






Male:

	Ruffled		Messy
-------------------------------------------------------------------------------------	---------	--------------------------------------------------------------------------------------	-------

	Straight		Rasta
	Short		Parted
	Slick		









Female:



	Long Parted		Wavy
-------------------------------------------------------------------------------------	----------------	--------------------------------------------------------------------------------------	------

	Crimped		Long Curvy
	Long Wavy		Long Wind blown
	Pigtails		Long
	Roman Ponytail		







<3> Expression Morphing:



Male:

	Normal		Sad
	Kiss		Sneer
	Smile open		Smile closed
	Surpris e		Anger

	Fear		Disgust
-----------------------------------------------------------------------------------	------	------------------------------------------------------------------------------------	---------

Female:

	Normal		Sad
	Kiss		Sneer
	Smile open		Smile closed

	Surprise		Anger
	Fear		Disgust

Another real dataset -(300-W challenge)

	AFW		AFW
-------------------------------------------------------------------------------------	-----	--------------------------------------------------------------------------------------	-----









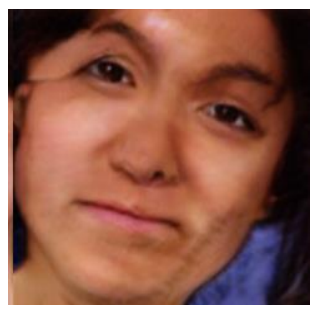




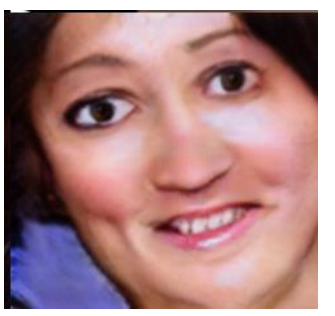

	IBUG		IBUG
	HELEN		HELEN
	LFPW		LFPW
	300W_ Indoor		300w_ outdoor

About Result and discussion




In our paper, autually, we can generate many synthetic images with real image feature information, and train other network through these synthetic data sets that combine real feature information, which can make the model better adapt to the real image test set.

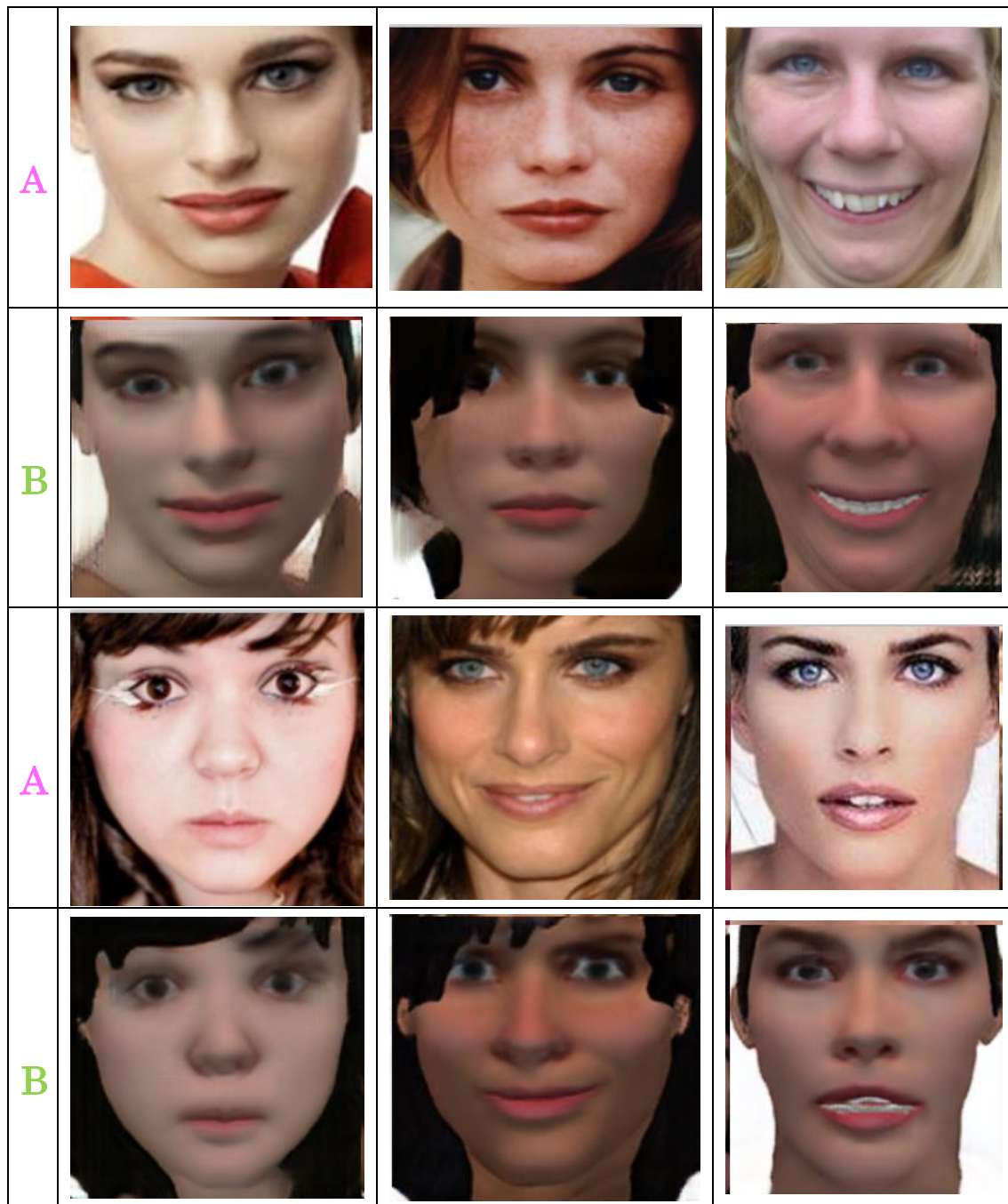
<1> from B to A (Input: A Output: B)



A			
B			
A			
B			
A			

<2> from A to B (Input: A Output: B)

A			
B			
A			
B			



Disscussion

Actually, we didn't consider occlusion in synthetic datasets, such as sunglasses, masks, etc., the generated data is not good for occluded real data. This may be the problem we need to deal with later. Here we show some result:

Model: from A to B		Problem
		With sunglasses
		With sunglasses
		Mark
		Obstruction