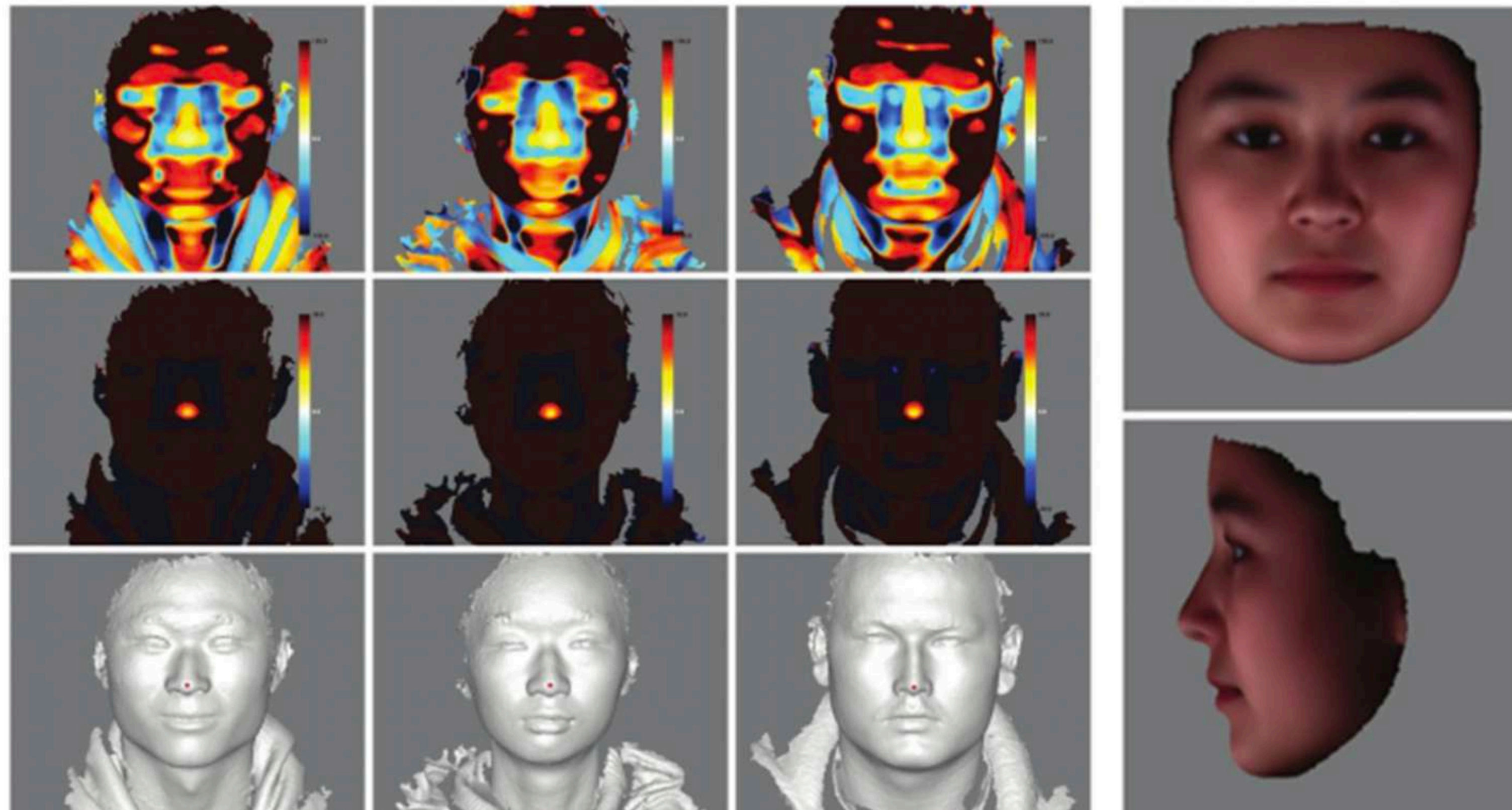


China Uses DNA to Map Faces, With Help From the West

Beijing's pursuit of control over a Muslim ethnic group pushes the rules of science and raises questions about consent.



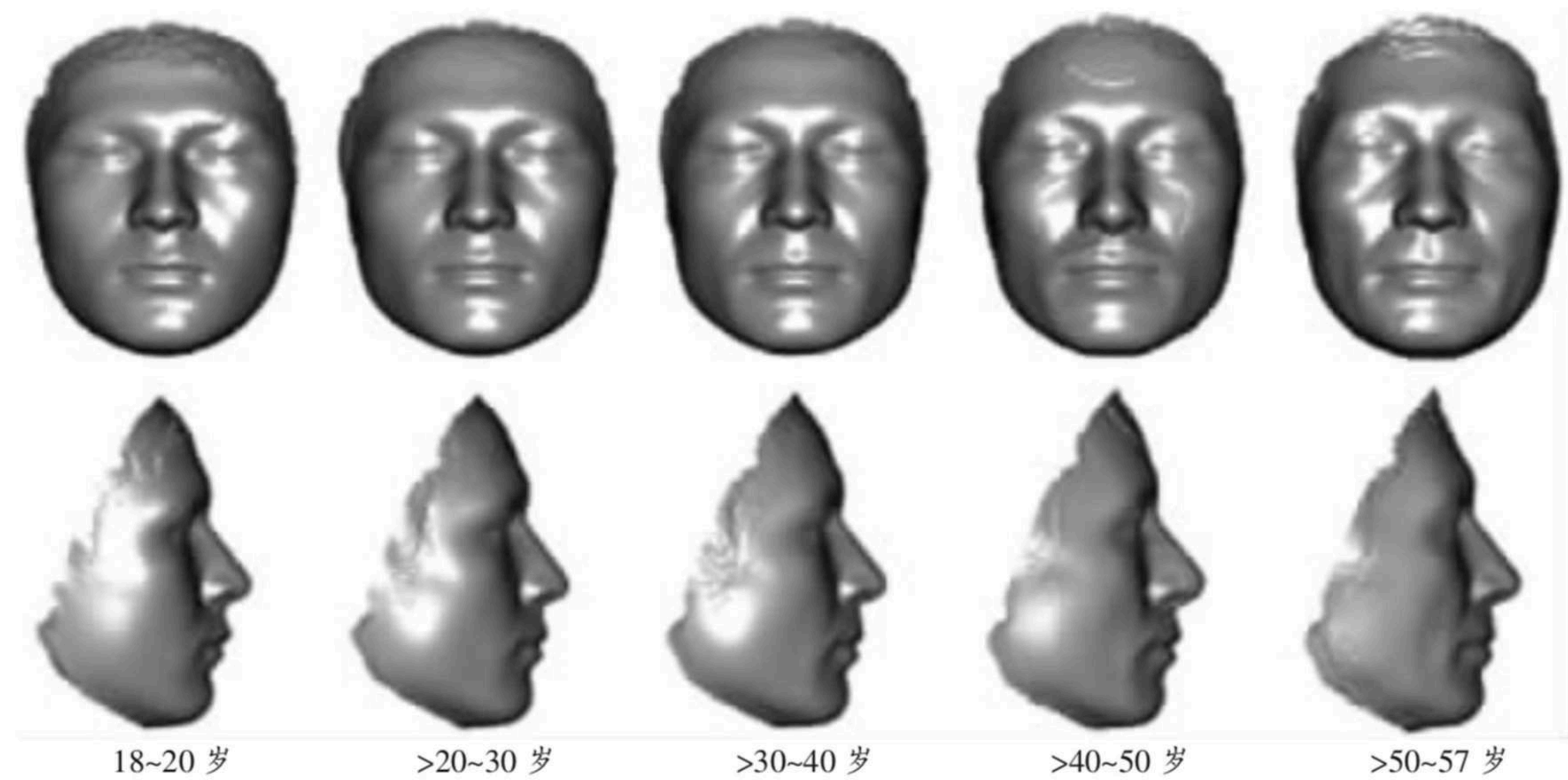
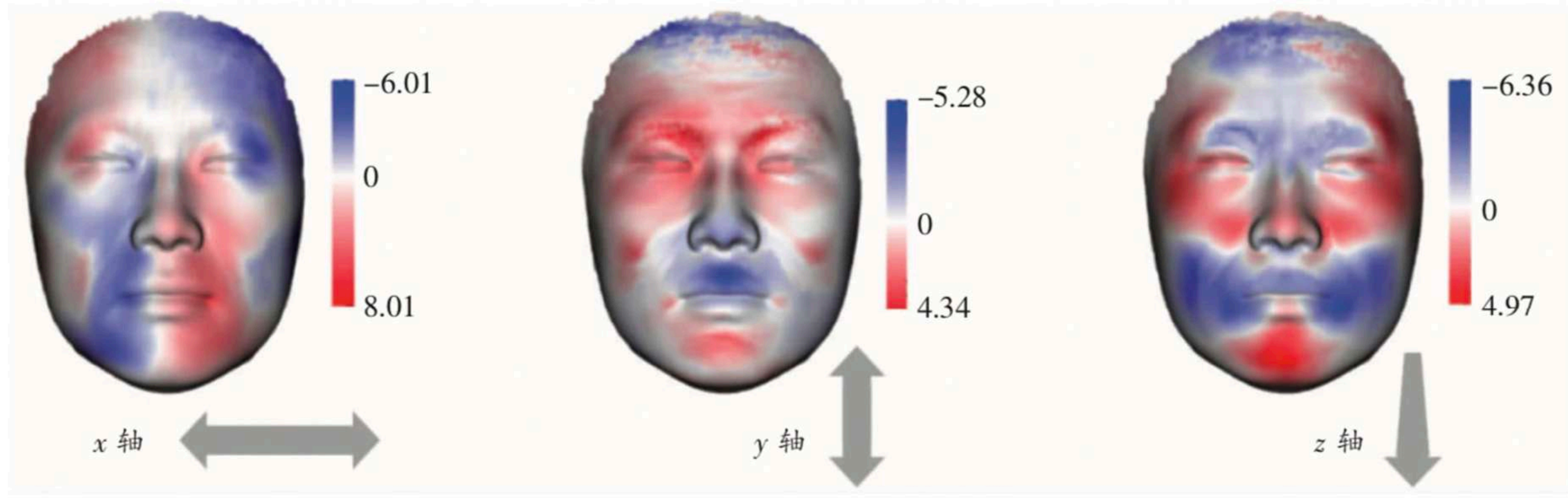


图 3 不同年龄段维吾尔族男性样本的平均脸

Controles de exportación

Deepfakes y democracia

Petaflop/s-days

1e+4

1e+2

1e+0

1e-2

1e-4

1e-6

1e-8

1e-10

1e-12

1e-14

Perceptron

1960

1970

1980

1990

2000

2010

2020

2-year doubling (Moore's Law)

NETtalk

ALVINN

TD-Gammon v2.1

RNN for Speech

Deep Belief Nets and
layer-wise pretraining

BiLSTM for Speech

LeNet-5

AlexNet

VGG

ResNets

Neural Machine
Translation

TI7 Dota 1v1

DQN

AlphaGoZero

3.4-month doubling

← First Era

Modern Era →





We're releasing an analysis showing that since 2012, the amount of compute used in the largest AI training runs has been increasing exponentially with a 3.4-month doubling time (by comparison, Moore's Law had a 2-year doubling period).^[1] Since 2012, this metric has grown by more than 300,000x (a 2-year doubling period would yield only a 7x



Facebook's Head of AI Says the Field Will Soon ‘Hit the Wall’

Jerome Pesenti is encouraged by progress in artificial intelligence, but sees the limits of the current approach to deep learning.



Reconocimiento facial

95%

Análisis de escritura

90%

Generación de voz humana

90%

Generación de rostros humanos (foto y video)

85%

Reconocimiento de emociones humanas

85%

Reconocimiento de voz

80%

Procesamiento de lenguaje natural

50%

guild prime

color naranja

venca

rayas verticales

blusas camiseras

blusas dama

casual

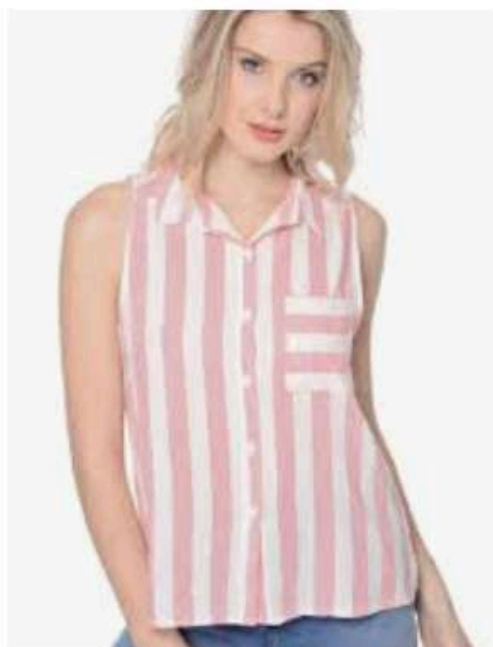
dgdolph

blusa elegante

aliexpress

blusas juveniles

blusas cortas



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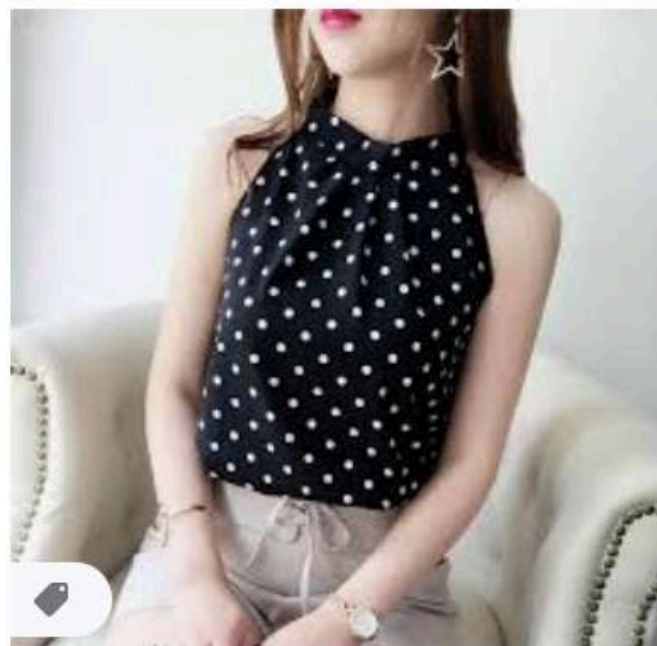
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