

Face Recognition

Face Verification

(1:1)

Input : image + name

Output: T/F

usage: Bank etc.

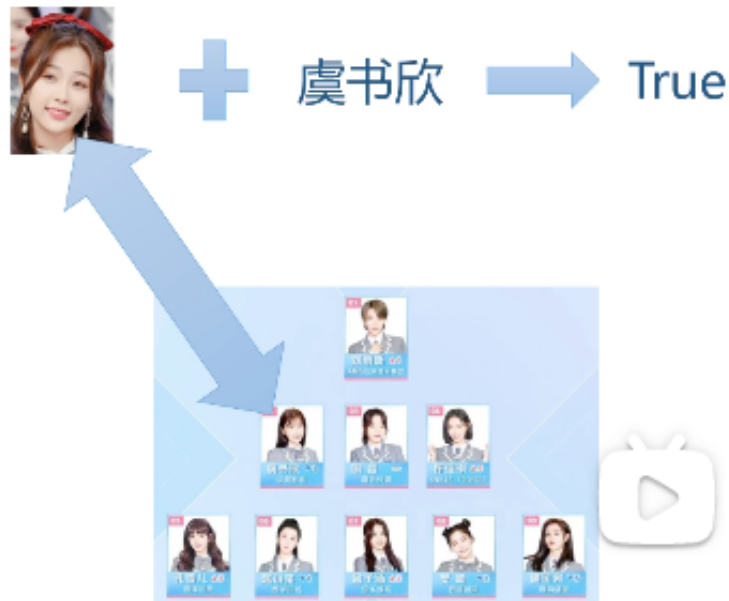


Face Recognition

(1:n)

Input: image + database

output: include?

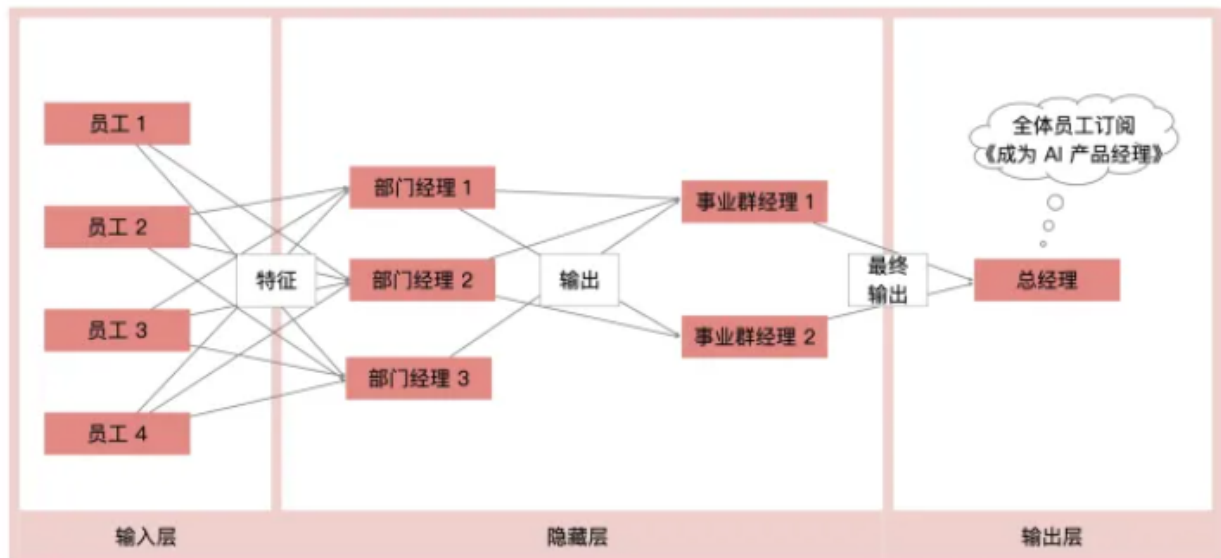
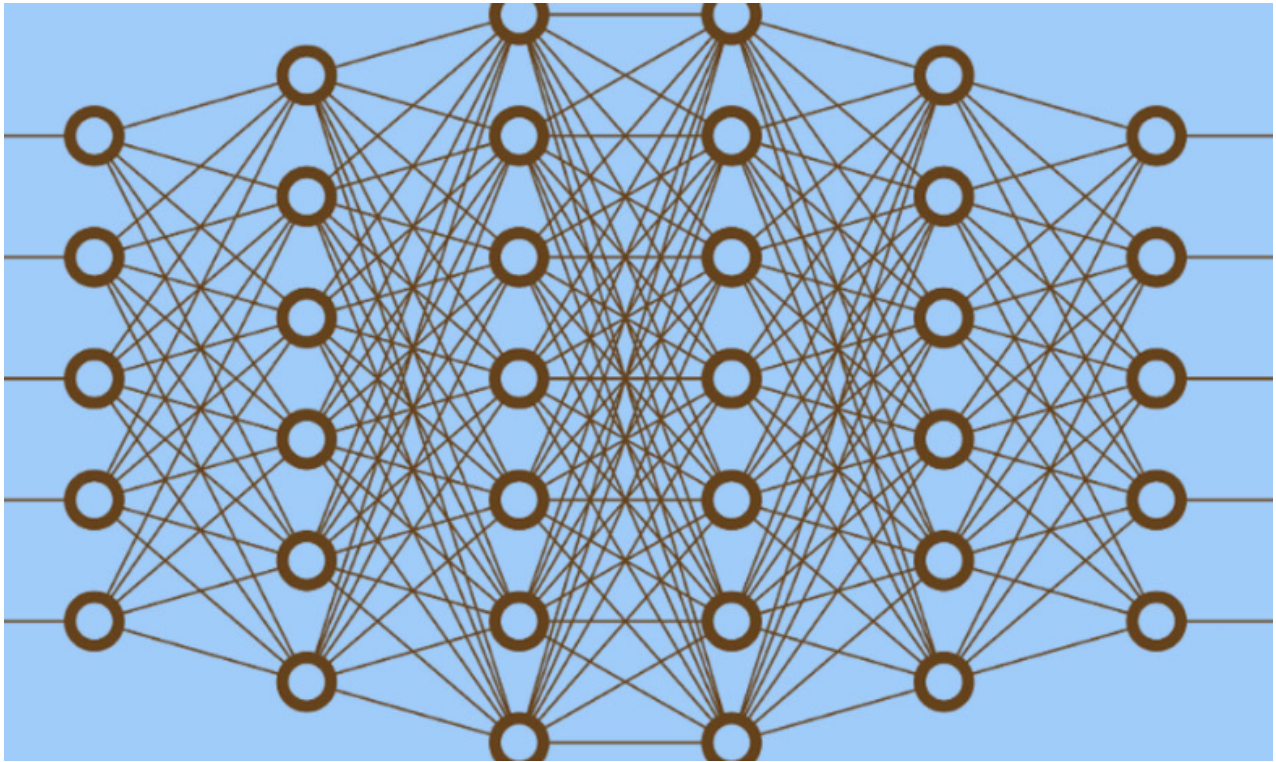


FACE SDK TYPE

1. Liveness interactive online
2. Liveness interactive offline(less)
3. Liveness flash(online, offline)
4. Liveness silence (online, offline)

Face Recognition + Deep learning

Deep learning

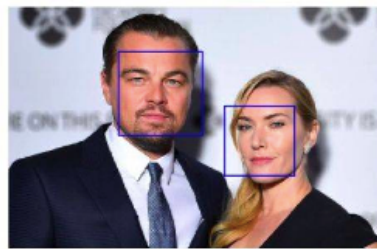


deep face(2014 paper)

face Recognition in Deep learning

Pipeline^[1]:

- Face Detection
- Face Align
- Face Representation
- Face Classification



(a)

Detect



(b)

(c)

Align: 三点或者五点

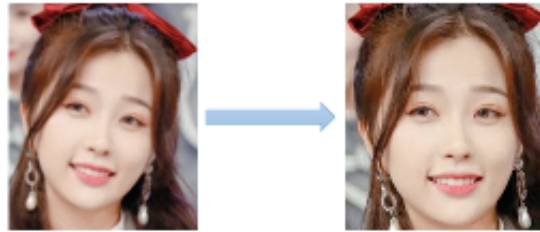


Face Detection

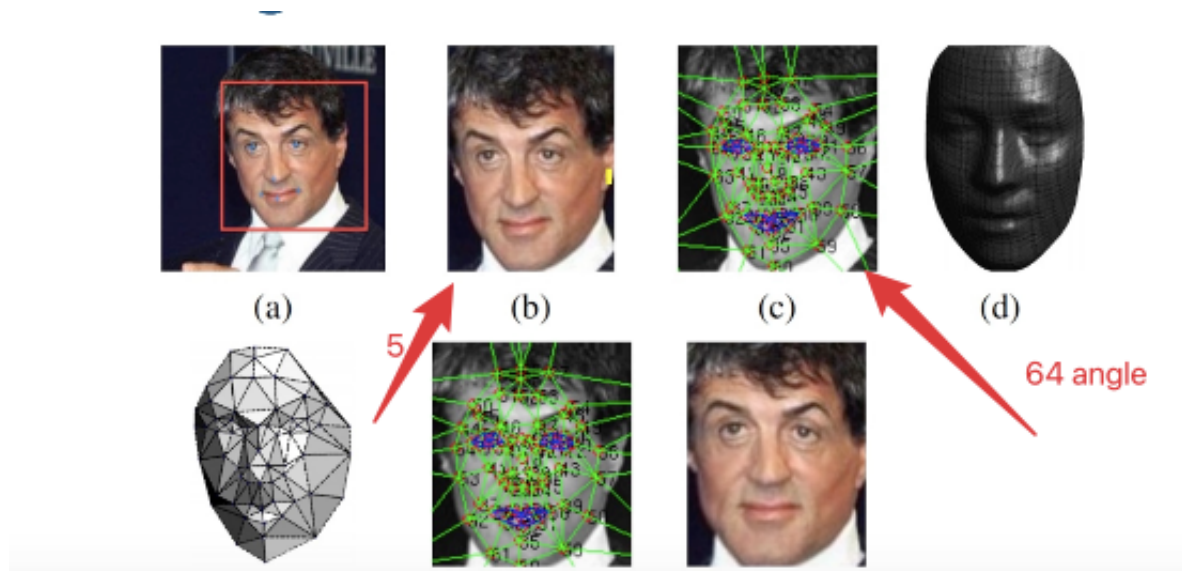


Face Align

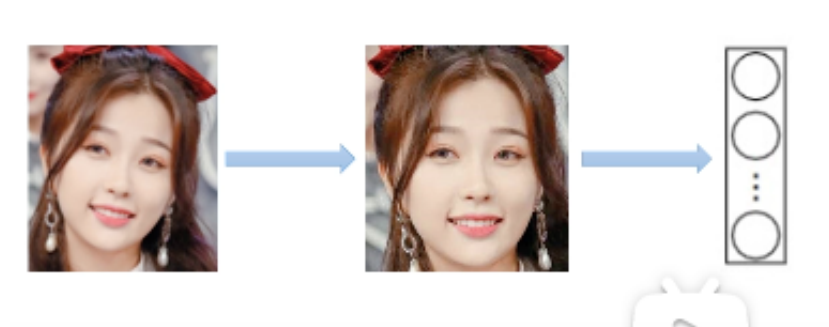
Position & size



Method:



Face Representation



convolutional network

Same person with different image should be close to the vector
,opposite is likewise

