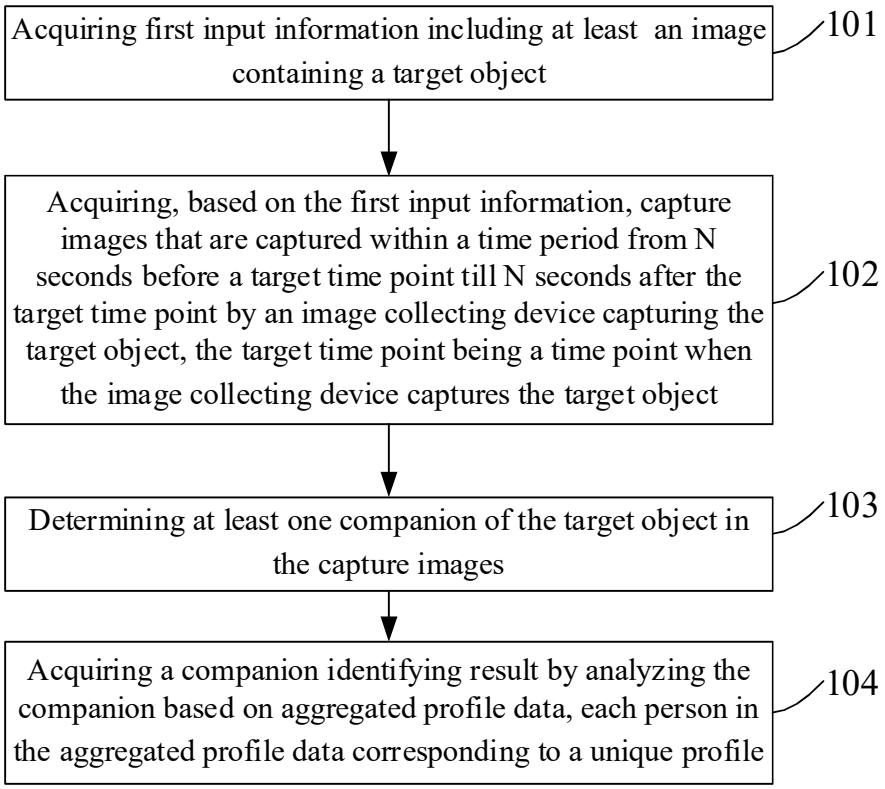

Acquiring first input information including at least an image containing a target object
101
Acquiring, based on the first input information, capture images that are captured within a time period from N seconds before a target time point till N seconds after the target time point by an image collecting device capturing the target object, the target time point being a time point when the image collecting device captures the target object
102
Determining at least one companion of the target object in the capture images
103
Acquiring a companion identifying result by analyzing the companion based on aggregated profile data, each person in the aggregated profile data corresponding to a unique profile
104

**FIG. 1**

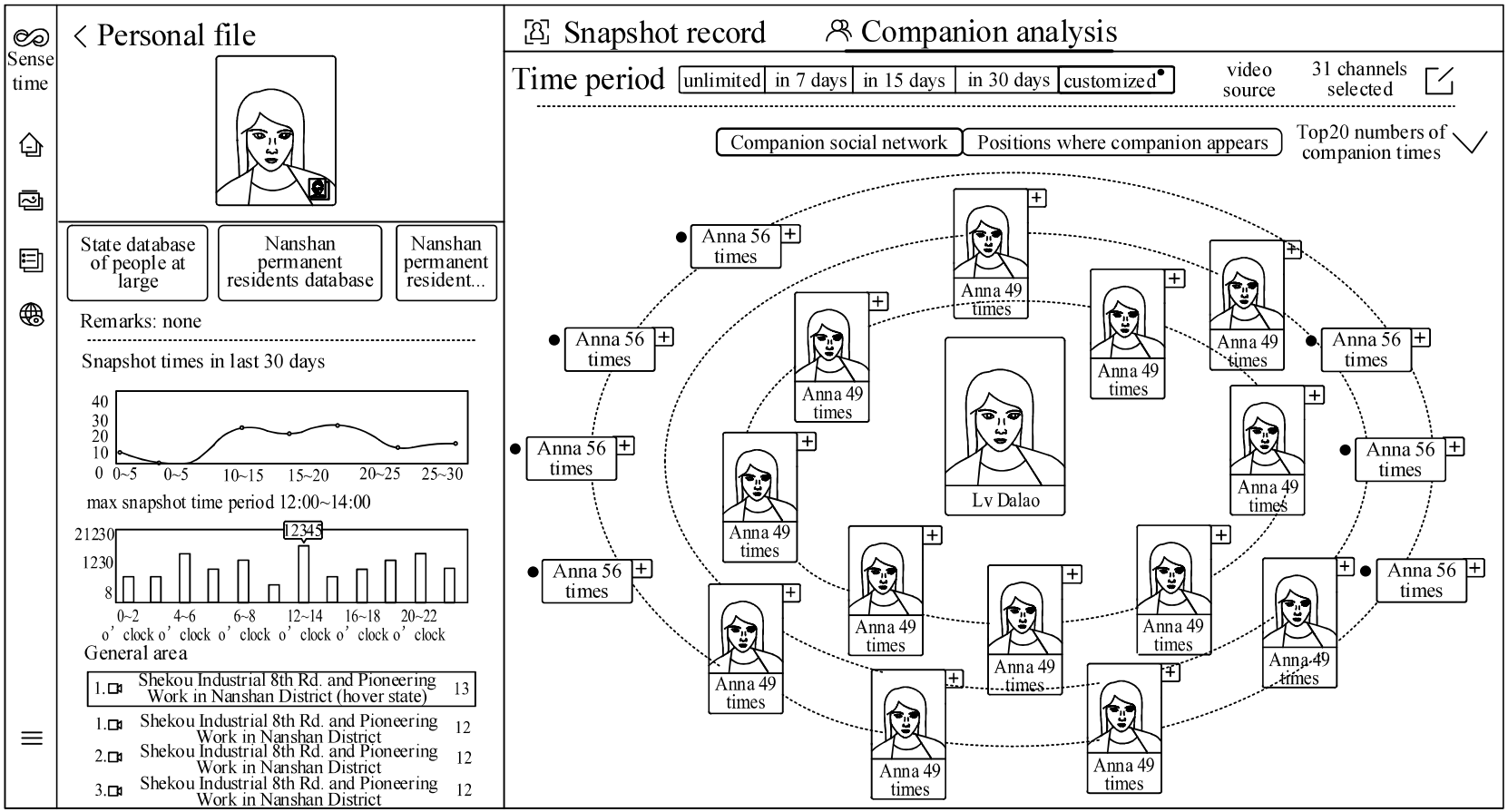

Sense time
Personal file
State database of people at large
Nanshan permanent residents database
Nanshan permanent resident...
Remarks: none
Snapshot times in last 30 days
40
30
20
10
0
0~5
0~5
10~15
15~20
20~25
25~30
max snapshot time period 12:00~14:00
21230
1230
8
12345
0~2 o'clock
4~6 o'clock
6~8 o'clock
12~14 o'clock
16~18 o'clock
20~22 o'clock
General area
1. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District (hover state) 13
1. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District 12
2. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District 12
3. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District 12
Snapshot record
Companion analysis
Time period
unlimited
in 7 days
in 15 days
in 30 days
customized
video source
31 channels selected
Companion social network
Positions where companion appears
Top20 numbers of companion times
Anna 56 times
Anna 49 times
Lv Dalao

FIG. 2

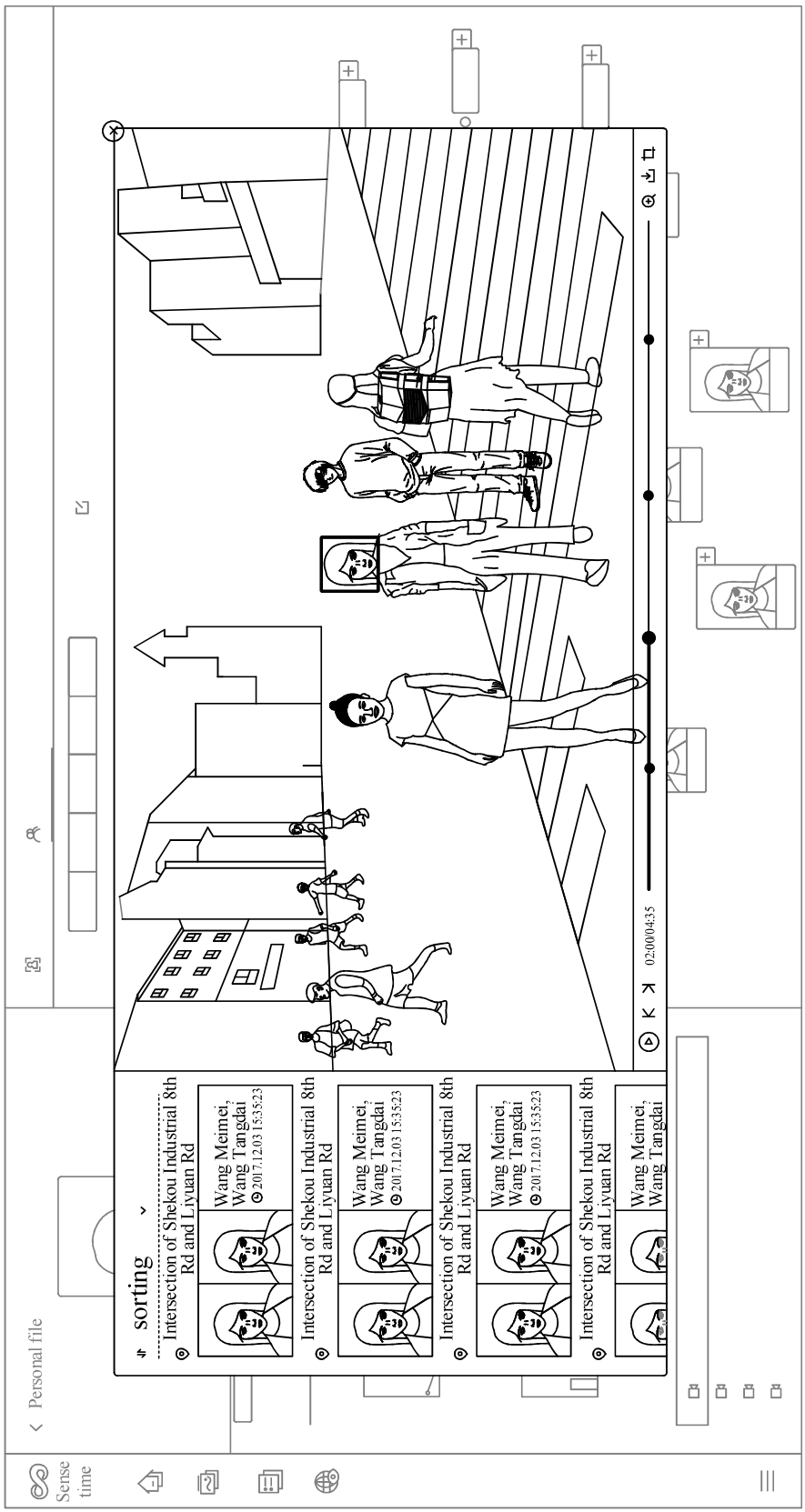

Personal file
Sense time
sorting
Intersection of Shekou Industrial 8th Rd and Liyuan Rd
Wang Meimei, Wang Tangdai
2017.12.03 15:35:23
02:00/04:35

FIG. 3

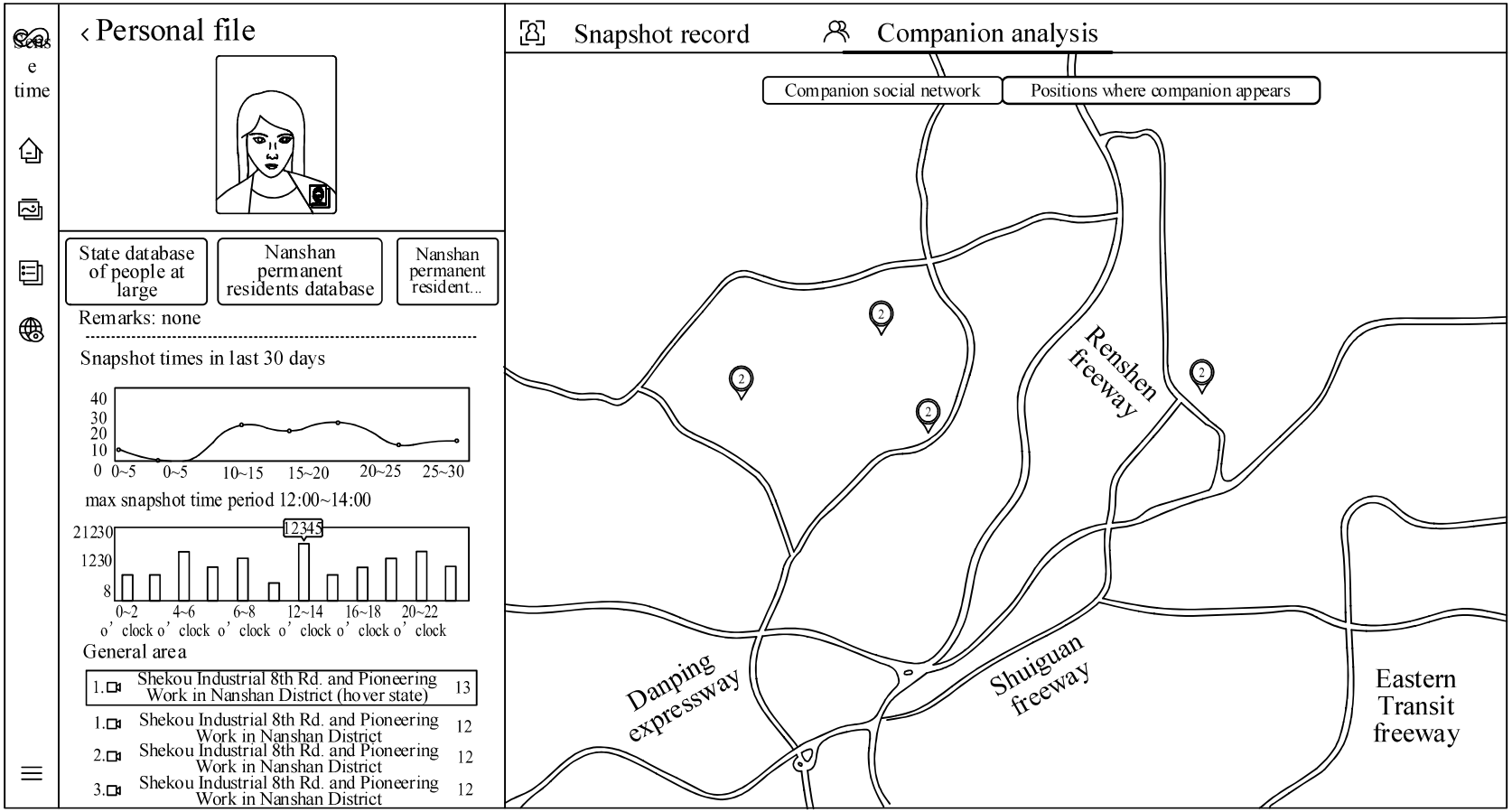

e time
‹ Personal file
State database of people at large
Nanshan permanent residents database
Nanshan permanent resident...
Remarks: none
Snapshot times in last 30 days
40
30
20
10
0
0~5
0~5
10~15
15~20
20~25
25~30
max snapshot time period 12:00~14:00
21230
1230
8
12345
0~2 o' clock
4~6 o' clock
6~8 o' clock
12~14 o' clock
16~18 o' clock
20~22 o' clock
General area
1. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District (hover state) 13
1. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District 12
2. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District 12
3. Shekou Industrial 8th Rd. and Pioneering Work in Nanshan District 12
Snapshot record
Companion analysis
Companion social network
Positions where companion appears
Renshen freeway
Danping expressway
Shuiguan freeway
Eastern Transit freeway

**FIG. 4**

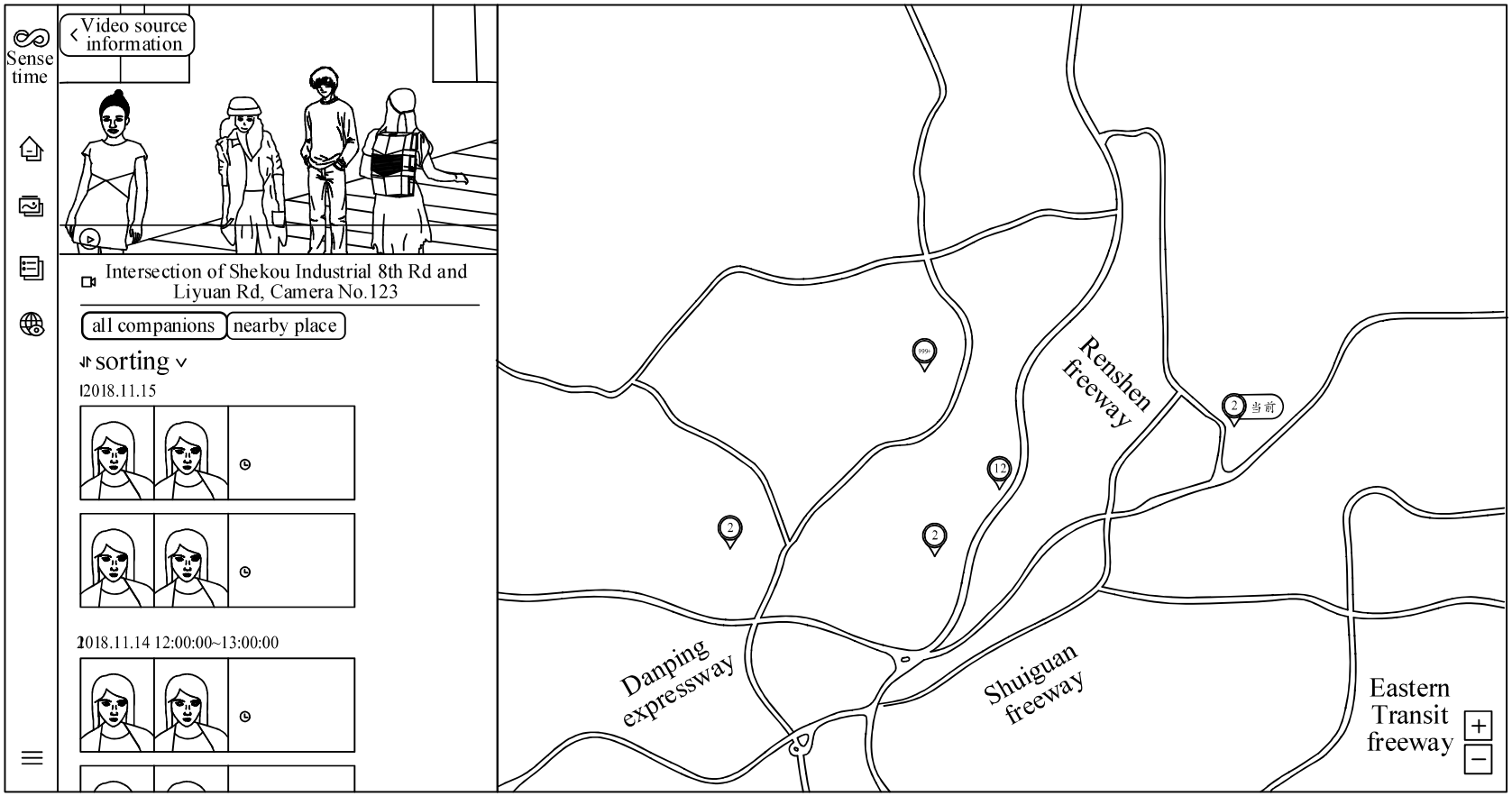

Sense time
Video source information
Intersection of Shekou Industrial 8th Rd and Liyuan Rd, Camera No.123
all companions
nearby place
sorting
2018.11.15
2018.11.14 12:00:00~13:00:00
Renshen freeway
Danping expressway
Shuiguan freeway
Eastern Transit freeway
当前

**FIG. 5**

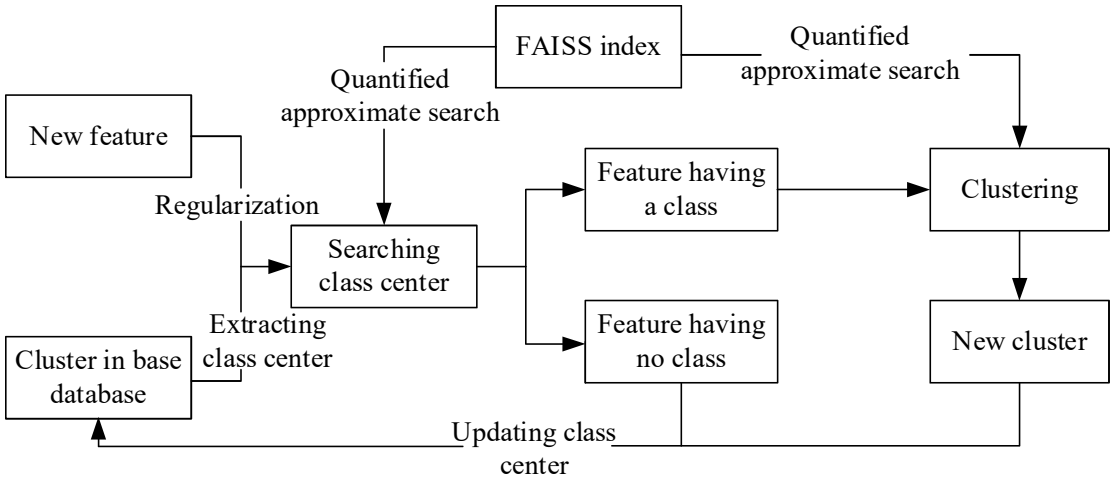



FIG.6

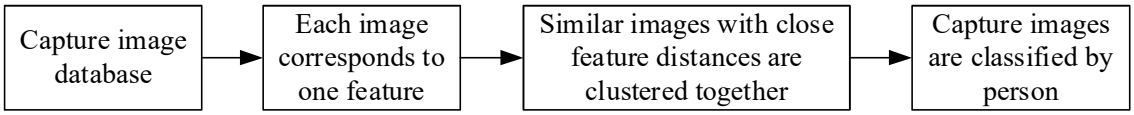



FIG. 7

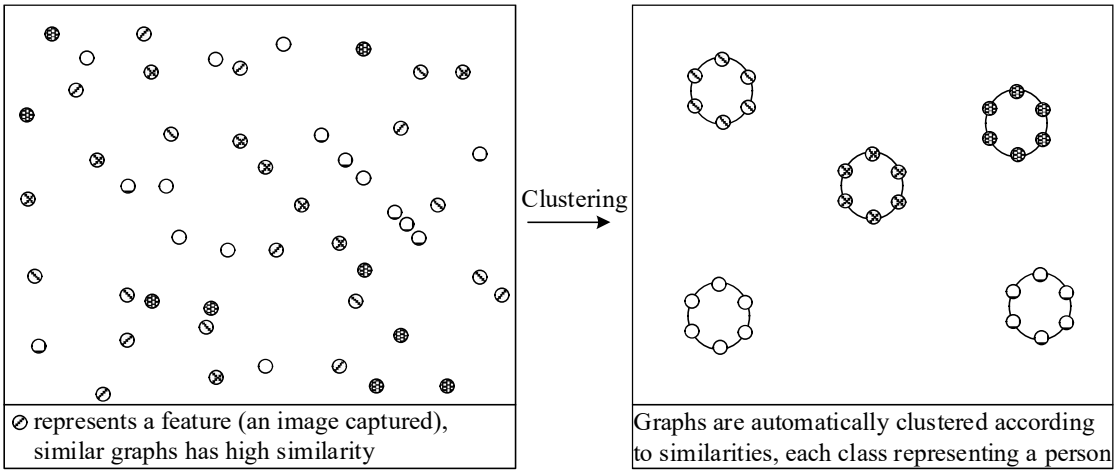



FIG. 8

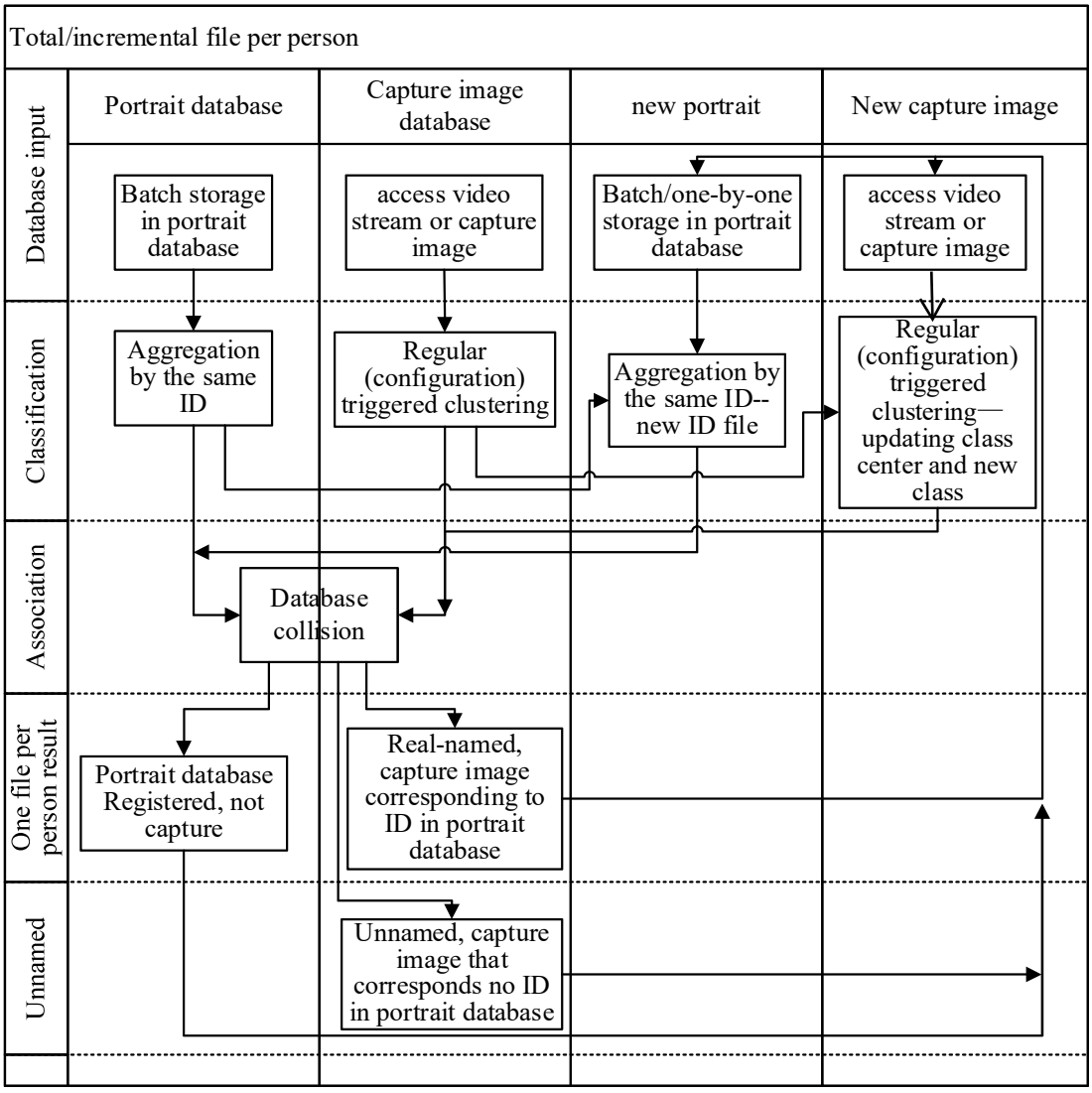

Total/incremental file per person
Database input
Classification
Association
One file per person result
Unnamed
Portrait database
Capture image database
new portrait
New capture image
Batch storage in portrait database
access video stream or capture image
Batch/one-by-one storage in portrait database
access video stream or capture image
Aggregation by the same ID
Regular (configuration) triggered clustering
Aggregation by the same ID-- new ID file
Regular (configuration) triggered clustering— updating class center and new class
Database collision
Portrait database Registered, not capture
Real-named, capture image corresponding to ID in portrait database
Unnamed, capture image that corresponds no ID in portrait database

**FIG. 9**

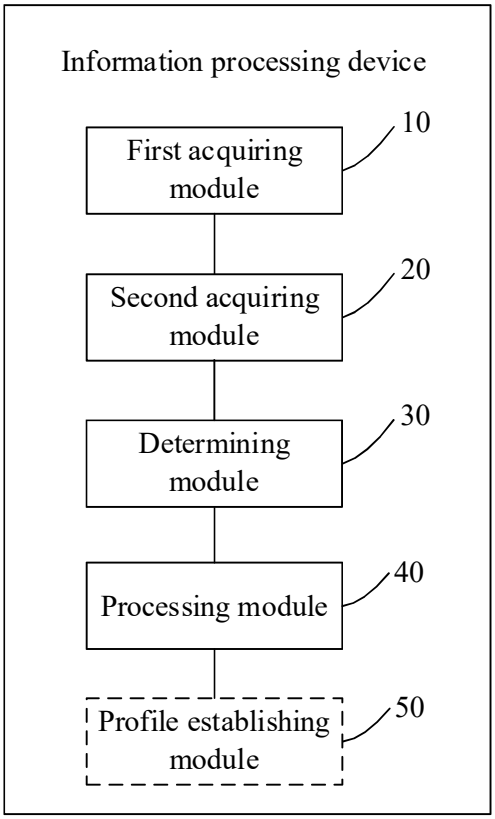

Information processing device
First acquiring module
10
Second acquiring module
20
Determining module
30
Processing module
40
Profile establishing module
50

**FIG. 10**