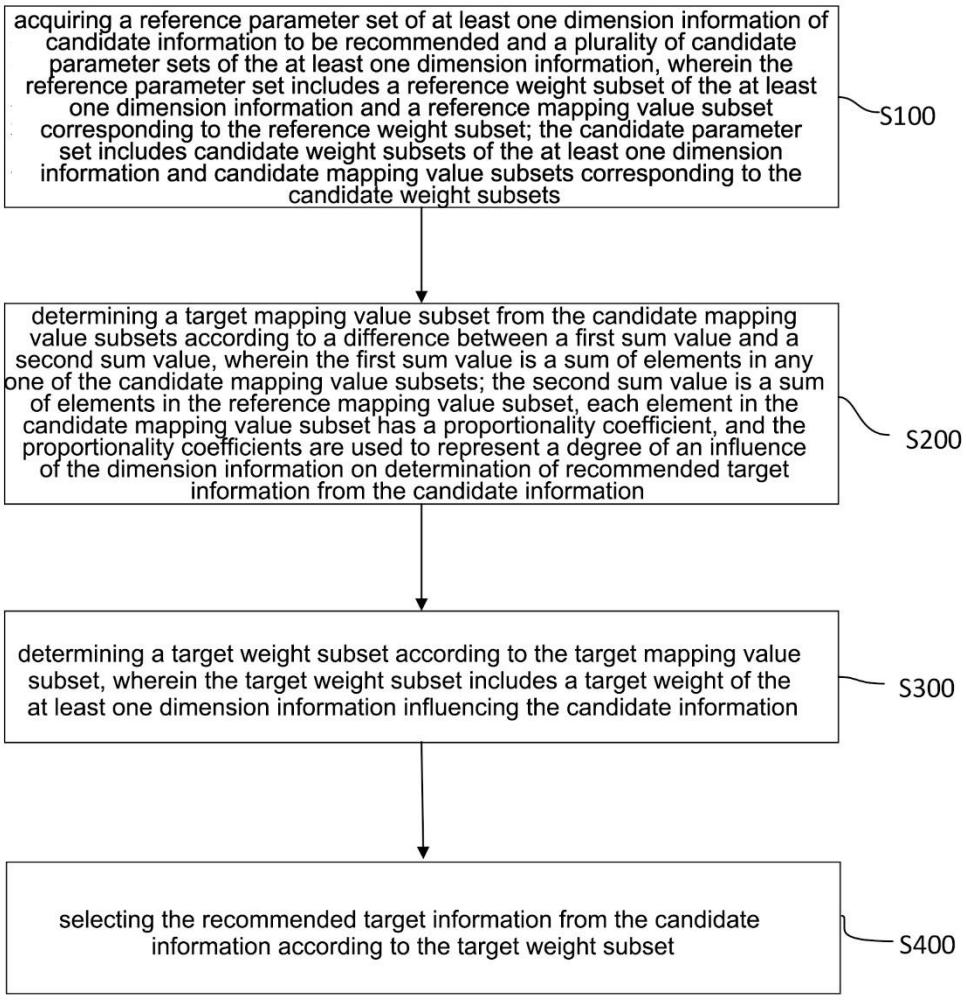
acquiring a reference parameter set of at least one dimension information of candidate information to be recommended and a plurality of candidate parameter sets of the at least one dimension information, wherein the reference parameter set includes a reference weight subset of the at least one dimension information and a reference mapping value subset corresponding to the reference weight subset; the candidate parameter set includes candidate weight subsets of the at least one dimension information and candidate mapping value subsets corresponding to the candidate weight subsets
S100
determining a target mapping value subset from the candidate mapping value subsets according to a difference between a first sum value and a second sum value, wherein the first sum value is a sum of elements in any one of the candidate mapping value subsets; the second sum value is a sum of elements in the reference mapping value subset, each element in the candidate mapping value subset has a proportionality coefficient, and the proportionality coefficients are used to represent a degree of an influence of the dimension information on determination of recommended target information from the candidate information
S200
determining a target weight subset according to the target mapping value subset, wherein the target weight subset includes a target weight of the at least one dimension information influencing the candidate information
S300
selecting the recommended target information from the candidate information according to the target weight subset
S400

FIG. 1

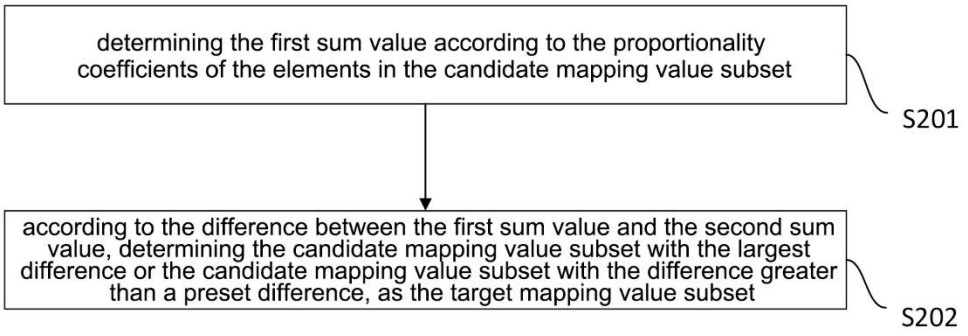
determining the first sum value according to the proportionality coefficients of the elements in the candidate mapping value subset
S201
according to the difference between the first sum value and the second sum value, determining the candidate mapping value subset with the largest difference or the candidate mapping value subset with the difference greater than a preset difference, as the target mapping value subset
S202

FIG. 2

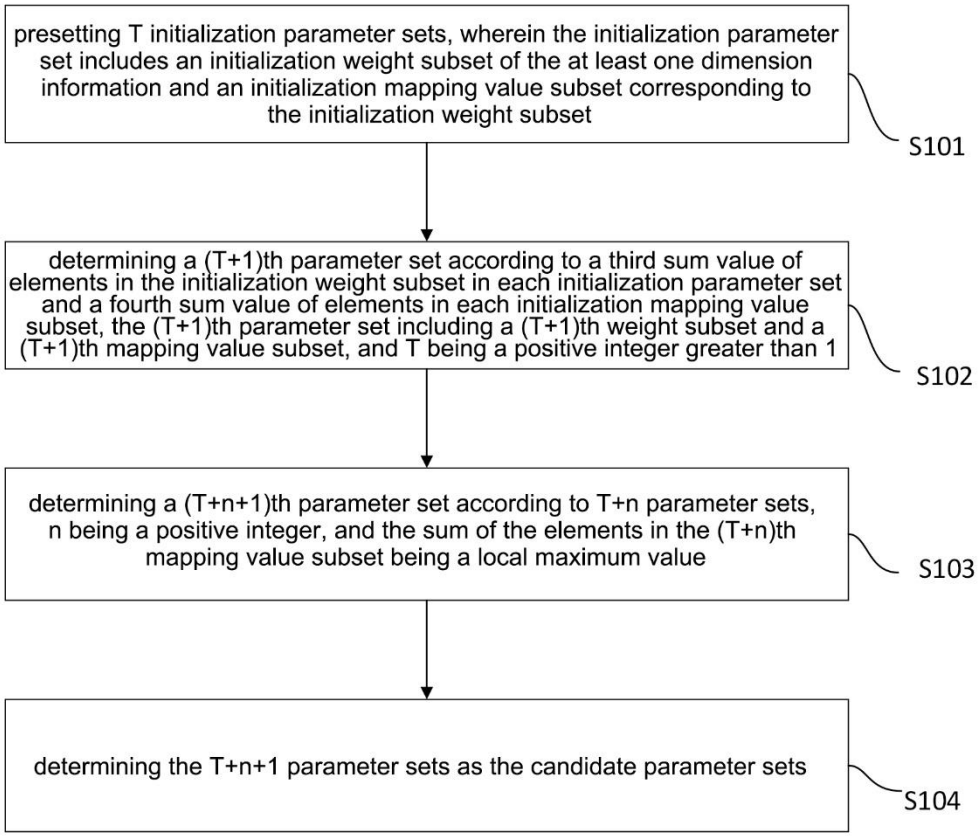
presetting T initialization parameter sets, wherein the initialization parameter set includes an initialization weight subset of the at least one dimension information and an initialization mapping value subset corresponding to the initialization weight subset
S101
determining a (T+1)th parameter set according to a third sum value of elements in the initialization weight subset in each initialization parameter set and a fourth sum value of elements in each initialization mapping value subset, the (T+1)th parameter set including a (T+1)th weight subset and a (T+1)th mapping value subset, and T being a positive integer greater than 1
S102
determining a (T+n+1)th parameter set according to T+n parameter sets, n being a positive integer, and the sum of the elements in the (T+n)th mapping value subset being a local maximum value
S103
determining the T+n+1 parameter sets as the candidate parameter sets
S104

FIG. 3

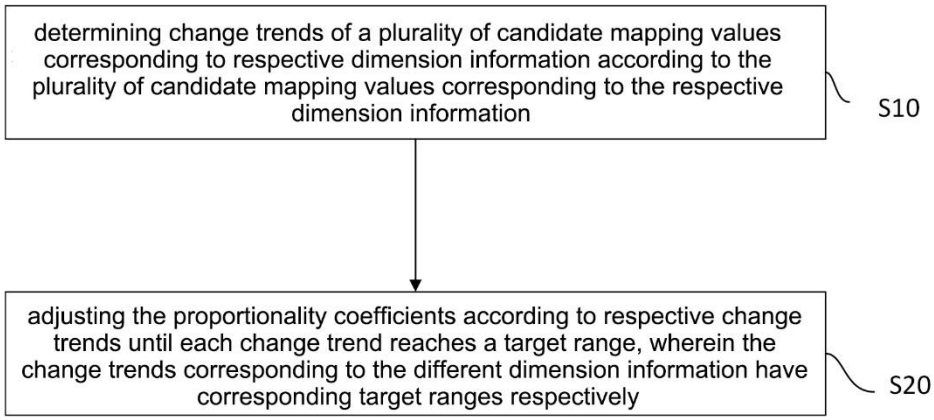
determining change trends of a plurality of candidate mapping values corresponding to respective dimension information according to the plurality of candidate mapping values corresponding to the respective dimension information
S10
adjusting the proportionality coefficients according to respective change trends until each change trend reaches a target range, wherein the change trends corresponding to the different dimension information have corresponding target ranges respectively
S20

FIG. 4

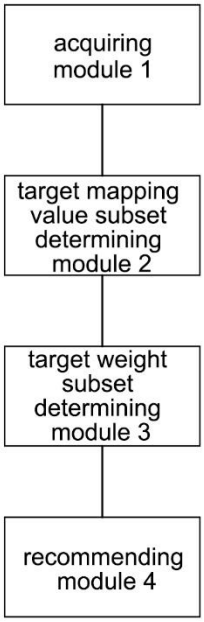
acquiring module 1
target mapping value subset determining module 2
target weight subset determining module 3
recommending module 4

FIG. 5

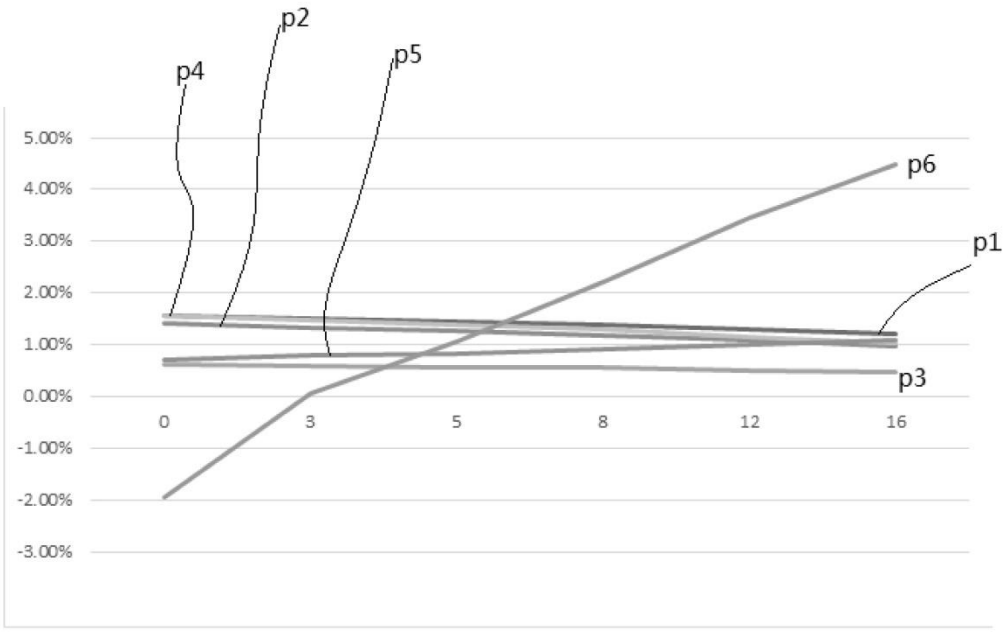
p2
p4
p5
p6
p1
p3
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
-1.00%
-2.00%
-3.00%
0
3
5
8
12
16

FIG. 6

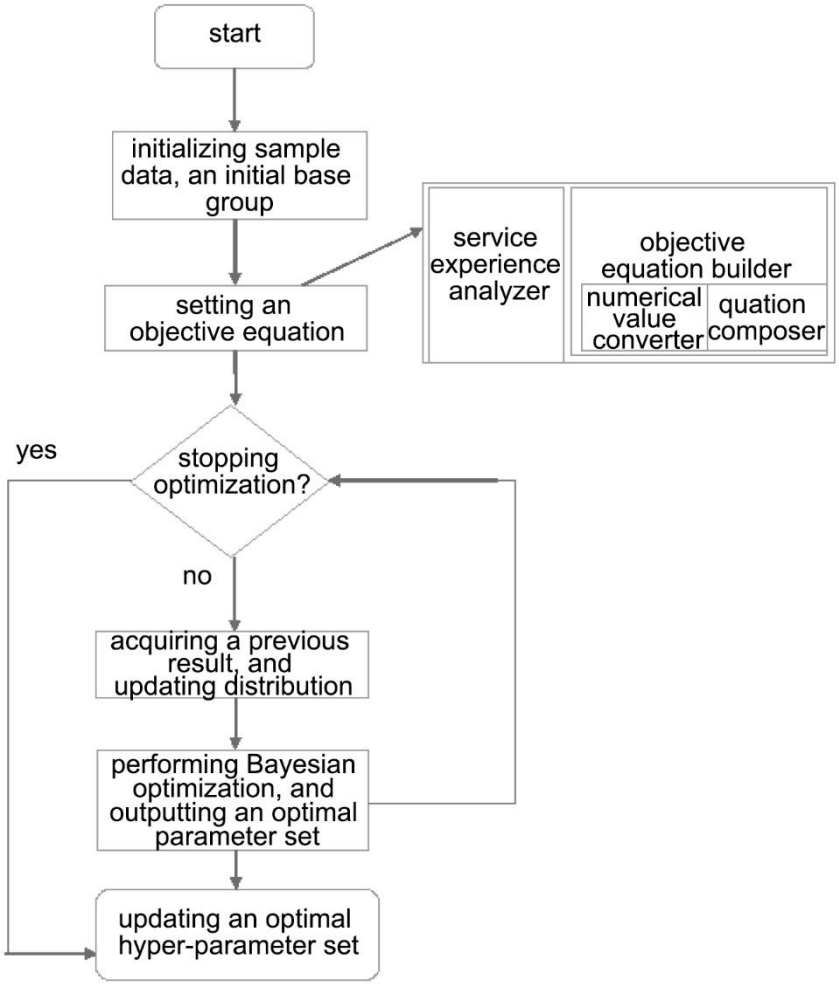
start
initializing sample data, an initial base group
setting an objective equation
service experience analyzer
objective equation builder
numerical value converter
quation composer
stopping optimization?
yes
no
acquiring a previous result, and updating distribution
performing Bayesian optimization, and outputting an optimal parameter set
updating an optimal hyper-parameter set

FIG. 7

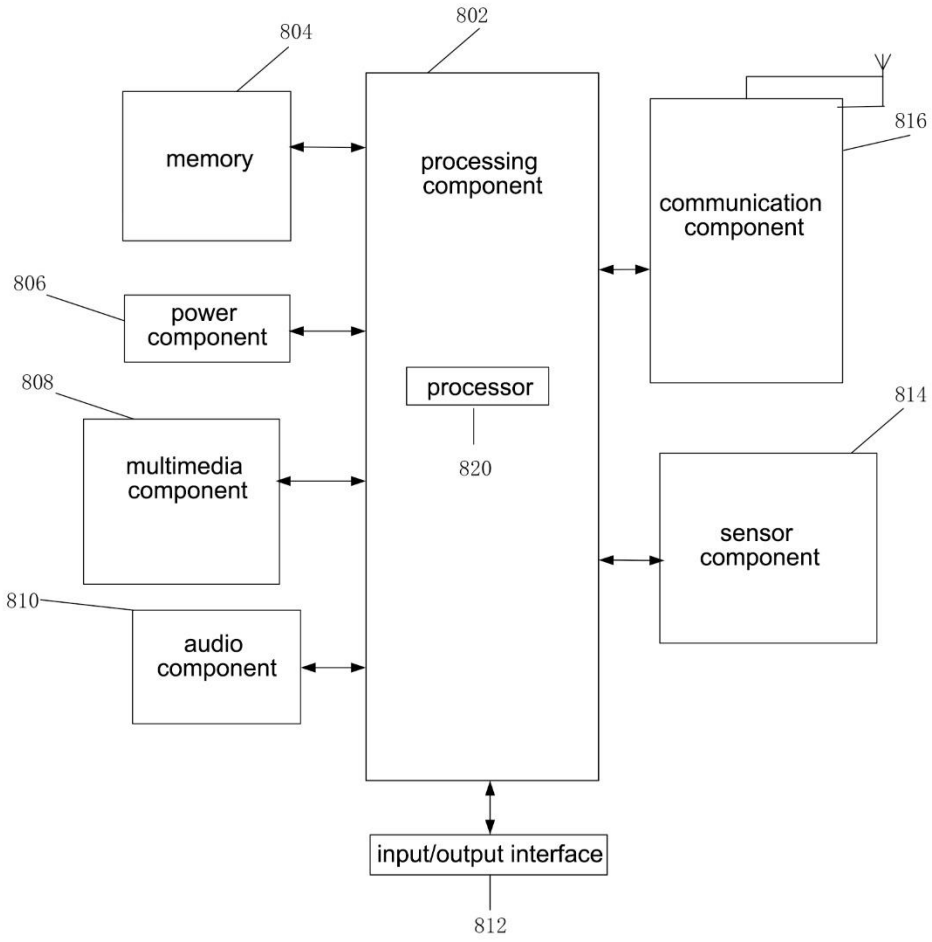
802
804
memory
processing component
816
communication component
806
power component
processor
820
808
multimedia component
814
sensor component
810
audio component
input/output interface
812

FIG. 8