Claims

1. A traffic pattern determination method, comprising:

determining an estimated traffic value corresponding to a current time, according to historical traffic information; wherein the historical traffic information includes a first traffic value actually used by a user at each time in a past historical time interval, and the estimated traffic value is a predicted first traffic value need to be used by the user at the current time;

determining preset traffic values corresponding to respective traffic patterns comprised in a traffic pattern set, respectively, wherein the traffic pattern set includes traffic patterns corresponding to network slices preset by the base station, different network slices correspond to different traffic patterns; a preset traffic value corresponds to the current time, the preset traffic value is an upper limit of a first traffic value that the user is capable of using at each time; and

determining a target traffic pattern corresponding to the current time from the traffic pattern set, according to the estimated traffic value and the preset traffic values corresponding to the respective traffic patterns comprised in the traffic pattern set.

2. The traffic pattern determination method of claim 1, wherein determining an estimated traffic value corresponding to a current time, according to historical traffic information comprises:

determining a time-traffic relation formula according to the historical traffic information, wherein the time-traffic relation formula is a relation formula between a respective time and a first traffic value corresponding to the respective time; and

determining a first traffic value corresponding to the current time according to the time-traffic relation formula, and determining the estimated traffic value corresponding to the current time according to the first traffic value corresponding to the current time.

3. The traffic pattern determination method of claim 2, wherein determining a time-traffic relation formula according to the historical traffic information comprises:

determining historical times comprised in the historical traffic information and first traffic values corresponding to respective historical times;

determining coordinate positions of the historical times and the first traffic values corresponding to the respective historical timed in a preset coordinate system; and

performing fitting according to the coordinate positions to obtain a fitting equation, and determining the fitting equation as the time-traffic relation formula.

4. The traffic pattern determination method of claim 3, wherein performing fitting according to

the coordinate positions to obtain a fitting equation and determining the fitting equation as the time-traffic relation formula comprises:

performing straight line fitting according to the coordinate positions to obtain a straight line fitting equation, and determining the straight line fitting equation as the time-traffic relation formula.

5. The traffic pattern determination method of claim 2, wherein determining a first traffic value corresponding to the current time according to the time-traffic relation formula, and determining the estimated traffic value corresponding to the current time according to the first traffic value corresponding to the current time comprises:

determining the first traffic value corresponding to the current time according to the time-traffic relation formula; and

determining a first traffic value corresponding to a previous time, and determining the estimated traffic value corresponding to the current time according to the first traffic value corresponding to the current time and the first traffic value corresponding to the previous time.

6. The traffic pattern determination method of claim 5, wherein determining the estimated traffic value corresponding to the current time according to the first traffic value corresponding to the current time and the first traffic value corresponding to the previous time comprises:

multiplying the first traffic value corresponding to the current time by a first weight to obtain a first data, and multiplying the first traffic value corresponding to the previous time by a second weight to obtain a second data; and

adding the first data and the second data together to obtain the estimated traffic value at the current time.

7. The traffic pattern determination method of any one of claims 1 to 6, wherein the traffic pattern set comprises a ratio ensurance scheduling pattern and a rate ensurance scheduling pattern, the ratio ensurance scheduling pattern is a traffic pattern in which a first traffic value corresponding to a preset ratio based on a total first traffic value is determined as the preset traffic value, the rate ensurance scheduling pattern is a traffic pattern in which a fixed preset rate traffic is used as the preset traffic value; and determining the preset traffic values corresponding to the respective traffic patterns comprised in the traffic pattern set comprises:

determining the total first traffic value corresponding to the current time, and determining a product of the preset ratio and the total first traffic value as the preset traffic value in the ratio ensurance scheduling pattern; and

determining the fixed preset rate traffic as the preset traffic value in the rate ensurance scheduling pattern.

8. The traffic pattern determination method of any one of claims 1 to 6, wherein determining a target traffic pattern corresponding to the current time from the traffic pattern set, according to the estimated traffic value and the preset traffic values corresponding to the respective traffic patterns comprised in the traffic pattern set comprises:

determining the target traffic pattern corresponding to the current time from the traffic pattern set, according to a ratio of the estimated traffic value and the preset traffic values corresponding to the respective traffic patterns comprised in the traffic pattern set.

9. The traffic pattern determination method of claim 8, wherein determining the target traffic pattern corresponding to the current time from the traffic pattern set, according to a ratio of the estimated traffic value and the preset traffic values corresponding to the respective traffic patterns comprised in the traffic pattern set comprises:

in a case where the estimated traffic value is greater than the preset traffic values corresponding to the respective traffic patterns comprised in the traffic pattern set, determining a traffic pattern corresponding to a largest preset traffic value among the preset traffic values corresponding to the respective traffic patterns, as the target traffic pattern corresponding to the current time;

in a case where the estimated traffic value is less than the preset traffic values corresponding to the respective traffic patterns comprised in the traffic pattern set, determining a traffic pattern corresponding to a smallest preset traffic value among the preset traffic values corresponding to the respective traffic patterns, as the target traffic pattern corresponding to the current time; and

in a case where the estimated traffic value is not greater than the preset traffic values corresponding to all the traffic patterns comprised in the traffic pattern set, or in a case where the estimated traffic value is not less than the preset traffic values corresponding to all the traffic patterns comprised in the traffic pattern set, determining a traffic pattern corresponding to a preset traffic value greater than the estimated traffic value among the preset traffic values corresponding to the respective traffic patterns, as the target traffic pattern corresponding to the current time.

10. An electronic device, comprising a memory and a processor; wherein

the memory is configured to store a computer program; and

the processor is configured to execute the computer program and to implement the traffic pattern determination method of any one of claims 1 to 9 when executing the computer program.

11. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, the processor is caused to implement the traffic pattern determination method of any one of claims 1 to 9.