

CLAIMS

What is claimed is:

1. A computer-implemented method for stationing shared vehicles, comprising:
 - collecting geographic positions of users using shared vehicles;
 - 5 calculating popularity indexes of the shared vehicles in a positional area corresponding to a collected geographic position, and calculating a popularity score of the positional area based on the popularity indexes of the shared vehicles;
 - mapping the calculated popularity score as a corresponding color value;
 - generating a visual chart through visual rendering on each positional area based
 - 10 on the color value, wherein the visual chart is used for an administrator to plan areas for stationing the shared vehicles; and
 - outputting the generated visual chart to the administrator through a predetermined visual interface,
 - wherein calculating the popularity indexes of the shared vehicles in a positional
 - 15 area corresponding to a collected geographic position comprises:
 - determining a first popularity index by calculating a difference between a quantity of the shared vehicles distributed and a quantity of the shared vehicles leased in the positional area;
 - determining a second popularity index by calculating a difference between the
 - 20 quantity of the shared vehicles distributed and a quantity of the shared vehicles returned in the positional area; and
 - determining a third popularity index by calculating an absolute value of a difference between the quantity of the shared vehicles leased and the quantity of the shared vehicles returned in the positional area.
- 25 2. The method according to claim 1, wherein collecting geographic positions of the users using the shared vehicles comprises:
 - collecting the geographic positions of the users leasing the shared vehicles; and
 - collecting the geographic positions of the users returning the shared vehicles.
3. The method according to claim 1, wherein calculating the popularity score of
- 30 the positional area based on the popularity indexes of the shared vehicles comprises:
 - mapping the first popularity index, the second popularity index, and the third popularity index to interval [0, 1] separately; and

calculating the popularity score based on the following equation:

$$L = a * S1 + b * S2 + c * S3;$$

wherein L is the popularity score; S1 represents the first popularity index mapped to interval [0,1]; S2 represents the second popularity index mapped to interval [0,1];
5 S3 represents the third popularity index mapped to interval [0,1]; a is a weight value corresponding to the first popularity index; b is a weight value corresponding to the second popularity index; c is a weight value corresponding to the third popularity index; and the sum of a, b and c is 1.

4. The method according to claim 3, wherein a color pattern used for visual
10 rendering on each positional area is an RGB pattern; and

mapping the calculated popularity score as a corresponding color value comprises:

obtaining a color value of channel R by calculating a product of L and 255;

obtaining a color value of channel G by calculating a product of (i) a difference
15 value between 1 and L and (ii) 255; and

setting a color value of channel B to 0.

5. The method according to claim 1, further comprising:

determining a positive integer of N positional areas with highest popularity
scores; and

20 outputting the N positional areas through the predetermined visual interface.

6. A non-transitory, computer-readable medium storing one or more instructions executable by a computer system to perform the computer-implemented method of any one of claims 1 to 5.

7. A device for stationing shared vehicles, the device comprising a collection
25 module, a calculation module, a mapping module, a rendering module, and an output module for performing the computer-implemented method of any one of claims 1 to 5.

8. An electronic device, comprising:

at least one processor; and

30 at least one computer-readable memory interoperably coupled with the at least one processor and configured to store one or more non-transitory, machine executable instructions that are executable by the at least one processor to perform the computer-implemented method of any one of claims 1 to 5.