Claims

WE CLAIM:

1. A method of providing a safe navigation route for travelling, wherein the method comprises:

   - receiving, from a processor-based user device, a query for a navigation route from a user, wherein the query comprises one of a source station and a destination station;
   - determining, at an application server communicably coupled to the processor-based user device, a plurality of navigation routes between the source station and the destination station;
   - analyzing, at the application server, each of the plurality of navigation routes to compute a safety index associated with each of the plurality of navigation routes, wherein the safety index is computed based on one or more location specific data associated with each of the navigation routes;
   - identifying, at the application server, at least one safe navigation route between the source station and the destination station based on the one or more location specific data associated therein; and
   - transmitting, to the processor-based user device, the at least one safe navigation route between the source station and the destination station in response to the query from the user.

2. The method as claimed in claim 1, wherein the method further comprises determining safety index for one or more locations in the at least one safe navigation route at a specific time stamp.

3. The method as claimed in claim 2, wherein the safety index is dependent on a desolation index and one or more location specific parameters, wherein the desolation index is computed using an emotional index, wherein the emotional index is computed based on:

   - inputs provided by one or more entity associated with the one or more locations in each of the navigation routes; and
   - traffic density associated with the one or more locations in each of the navigation routes.

4. The method as claimed in claim 3, wherein the one or more location specific parameters comprises:

    - a population index of the one or more locations in each of the navigation routes;
    - an availability of one or more safe houses at the one or more locations in each of the navigation routes;
    - a noise level of the one or more locations in each of the navigation routes;
    - an illumination level at the one or more locations in each of the navigation routes;
    - a quality index of the one or more locations in each of the navigation routes; and
    - physiological data associated with one or more entity associated with the one or more locations in each of the navigation routes.

5. The method as claimed in claim 4, further comprising autonomously acquiring the physiological data associated with the one or more entity, wherein the physiological data comprises:

    - activities associated with the one or more entity;
    - physiological parameters associated with the one or more entity; and
    - health parameters associated with the one or more entity.

6. The method as claimed in any one of the preceding claims, wherein the method is further operable to determine a mood associated to the one or more locations in each of the navigation routes at a specific timestamp.

7. The method as claimed any one of the preceding claim, wherein the method is further operable to select the safe navigation route for travelling at real time.

8. A system for providing a safe navigation route for travelling, wherein the system comprises:

    - a receiver configured to receive from a processor-based user device a query for a navigation route, wherein the query comprises at least one of a source station and a destination station from a user; and
    - an application server communicably coupled to the processor-based user device, wherein the application server is operable to:
    - determine a plurality of navigation routes between the source station and the destination station;

- analyze each of the plurality of navigation routes to compute a safety index associated with each of the plurality of navigation routes, wherein the safety index is computed based on one or more location specific data associated with each of the navigation routes;

- identify at least one safe navigation route between the source station and the destination station, based on the one or more location specific data associated therein; and

- transmit the at least one safe navigation route between the source station and the destination station in response to the query from the user.

9. The system as claimed in claim 8, further comprises a secondary user device, wherein the secondary user device is operable to:

   - acquire physiological data of one or more entity associated with one or more locations in each of the navigation routes; and

   - determine a mood associated with one or more locations in each of the navigation routes at a specific timestamp.

10. The system as claimed in claim 8, wherein the application server is further operable to generate a real time safety heat map to be rendered on a graphical user interface.

Claims

WE CLAIM:

1. A method of providing a safe navigation route for travelling, wherein the method comprises:

   - receiving, from a processor-based user device (102), a query for a navigation route from a user, wherein the query comprises one of a source station and a destination station;

   - determining, at an application server (104) communicably coupled to the processor-based user device (102), a plurality of navigation routes between the source station and the destination station, characterised in that:

   - analyzing, at the application server (104), each of the plurality of navigation routes to compute a safety index comprises one or more physiological data associated with one or more entity associated with one or more locations in each of the plurality of navigation routes, wherein the safety index is computed based on one or more location specific data associated with each of the navigation routes, wherein a process of analysing includes of autonomously acquiring the physiological data associated with the one or more entity, wherein the physiological data comprises activities associated with the one or more entity, physiological parameters associated with the one or more entity and health parameters associated with the one or more entity, wherein the activities associated with the one or more entity includes number of steps taken by an entity while walking, amount time spent in sleeping, amount of time spent while performing other cartographic activities, wherein the physiological parameters include electrocardiography or pulse-oximetry data of the bodies of the one or more entity, wherein the health parameters includes temperature, blood pressure and stress levels, wherein the application server (104) with the physiological data describing the stress levels of the entity associated to a location in the navigation route, wherein if the physiological data associated with one or more entities associated with the one or more locations of a navigation route shows a high-stress levels, then the application server (104) configured to determine navigation route as unsafe;

   - identifying, at the application server (104), at least one safe navigation route between the source station and the destination station based on the one or more location specific data associated therein; and

   - transmitting, to the processor-based user device (102), the at least one safe navigation route between the source station and the destination station in response to the query from the user.

2. The method as claimed in claim 1, wherein the method further comprises determining safety index for one or more locations in the at least one safe navigation route at a specific time stamp.
3. The method as claimed in claim 2, wherein the safety index is dependent on a desolation index and one or more location specific parameters, wherein the desolation index is computed using an emotional index, wherein the emotional index is computed based on:
   - inputs provided by one or more entity associated with the one or more locations in each of the navigation routes; and
   - traffic density associated with the one or more locations in each of the navigation routes.
4. The method as claimed in claim 3, wherein the one or more location specific parameters comprises:
   - a population index of the one or more locations in each of the navigation routes;
   - an availability of one or more safe houses at the one or more locations in each of the navigation routes;
   - a noise level of the one or more locations in each of the navigation routes;
   - an illumination level at the one or more locations in each of the navigation routes;
   - a quality index of the one or more locations in each of the navigation routes; and
   - physiological data associated with one or more entity associated with the one or more locations in each of the navigation routes.
5. The method as claimed in any one of the preceding claims, wherein the method is further operable to determine a mood associated to the one or more locations in each of the navigation routes at a specific timestamp.
6. The method as claimed in any one of the preceding claim, wherein the method is further operable to select the safe navigation route for travelling at real time.
7. A system (100) for providing a safe navigation route for travelling, wherein the system (100) comprises:
   - a receiver configured to receive from a processor-based user device (102) a query for a navigation route, wherein the query comprises at least one of a source station and a destination station from a user; and
   - an application server (104) communicably coupled to the processor-based user device (102), wherein the application server (104) is operable to:
   - determine a plurality of navigation routes between the source station and the destination station, characterised in that:

- analyze each of the plurality of navigation routes to compute a safety index associated with each of the plurality of navigation routes, wherein the safety index comprises one or more physiological data associated with one or more entity associated with one or more location specific in of the navigation routes and acquire the physiological data associated with the one or more entity, wherein the physiological data comprises activities associated with the one or more entity, physiological parameters associated with the one or more entity and health parameters associated with the one or more entity, wherein the activities associated with the one or more entity includes number of steps taken by an entity while walking, amount time spent in sleeping, amount of time spent while performing other cartographic activities, wherein the physiological parameters include electrocardiography or pulse-oximetry data of the bodies of the one or more entity, wherein the health parameters includes temperature, blood pressure and stress levels, wherein the application server (104) with the physiological data describing the stress levels of the entity associated to a location in the navigation route, wherein if the physiological data associated with one or more entities associated with the one or more locations of a navigation route shows a high-stress levels, then the application server (104) configured to determine navigation route as unsafe;

- identify at least one safe navigation route between the source station and the destination station, based on the one or more location specific data associated therein; and

- transmit the at least one safe navigation route between the source station and the destination station in response to the query from the user;

8. The system as claimed in claim 7, further comprises the secondary user device (204), wherein the secondary user device (204) is operable to:

   - acquire physiological data of one or more entity associated with one or more locations in each of the navigation routes; and

   - determine a mood associated with one or more locations in each of the navigation routes at a specific timestamp.

9. The system as claimed in claim 7, wherein the application server (104) is further operable to generate a real time safety heat map to be rendered on a graphical user interface (202).