CLAIMS

1. A system to monitor use and operation of a lift controlled by a controller, the system comprising:

    a server;

    a BLE transceiver to automatically detect presence of a BLE beacon in the lift and to wirelessly provide presence data to the server;

    a load sensor to detect presence of a load in the lift and to determine a weight of the load, the load sensor having BLE transmission capability to wirelessly provide load data to the server, wherein the load data provides indication of type of load in the lift; and

    at least one ride-quality sensor to detect at least one parameter that affects ride comfort in the lift, the at least one ride-quality sensor having BLE transmitting capability to wirelessly provide ride-quality data to the server;

    wherein the server is provided with associative functionality to associate the ride-quality data with the presence data and the load data, and wherein the server is further provided with learning capability to learn from associated data and to optionally provide compensatory feedback derived from the associated data to the lift controller to adjust lift acceleration and velocity to improve ride quality for a detected load in the lift.

2. The system of claim 1, wherein the BLE transceiver is configured to detect presence of more than one BLE beacon in the lift.

3. The system of any one of the preceding claims, further comprising a door status sensor to obtain a door status of the lift, the system further configured to wirelessly transmit the door status to a status receiver in the lift, the status receiver being provided on a robotic user of the lift, the door status being one of: open and shut.

4. The system of claim 3, further comprising a floor level sensor to determine a floor level the lift is at, the system further configured to wirelessly transmit the floor level data to the status receiver.

5. The system of claim 3 or claim 4, further comprising a level displacement sensor to determine a vertical displacement between a carriage floor of the lift and a floor of a lift

landing onto which the lift door opens, the system further configured to wirelessly transmit the vertical displacement data to the status receiver.

6. The system of any one of the preceding claims, further comprising a rope condition sensor to monitor condition of a suspension wire rope of the system, the rope condition sensor having BLE transmitting capability to wirelessly provide rope condition data to the server.

7. The system of any one of the preceding claims, wherein the at least one ride-quality sensor comprises an accelerometer to detect acceleration, velocity, deceleration and jerk of the lift.

8. The system of any one of the preceding claims, wherein the at least one ride-quality sensor comprises a vibration sensor to determine vibration frequency and vibration intensity experienced by the load in the lift.

9. The system of any one of the preceding claims, wherein the at least one ride-quality sensor comprises a sound sensor to detect noise level in the lift.

10. The system of any one of the preceding claims, wherein presence data in the server is made available to a location tracking service for tracking location and movement of the BLE beacon.

11. The system of any one of the preceding claims, wherein the BLE transceiver is configured as a node of a BLE mesh network provided in a building in which the lift is installed.

12. The system of claim 11, wherein the server is further provided with a lift-controlling application to send a signal to the lift controller to move the lift to a lift lobby when a node of the BLE mesh network provided at the lift lobby detects presence of the BLE beacon at the lift lobby for a predetermined minimum period of time.

13. The system of claim 12, wherein the lift-controlling application is further configured to send a signal to the lift controller to move the lift to a specific floor when destination data stored in the BLE beacon is obtained by the BLE transceiver and transmitted to the server.