Claims:

1. A method for measuring the traffic flow in a building having a people mover system, comprising the steps of:

temporarily installing at least two monitoring units with at least one sensor in the vicinity of an entrance and/or exit area of at least one people mover, wherein at least one of the monitoring units comprises a camera;

providing a power supply for operating each monitoring unit independently;

associating event data caught by the sensor with a current event time and with a location/position of the corresponding monitoring unit as correlated event/event time/event location data;

computing the traffic flow in the building using the correlated event/event time/event location data; and

transferring graphic data from the camera into textual data for further processing.

2. The method according to claim 1, wherein the step of transferring the event data of each of the monitoring units is performed via a detachable memory.

3. The method according to one of the preceding claims, wherein the step of transferring the event data of each of the monitoring units is performed via a wireless communication link.

4. The method according to one of the preceding claims, further comprising storing event data detected by the sensor in a memory of the respective monitoring unit in connection with the current event time as correlated event/event time data.

5. The method according to one of the preceding claims, further comprising wirelessly transferring the event data caught by the sensor to a recording unit having a memory for storing the event data.

6. The method according to claim 5, further comprising processing the event data and/or correlated event/event time data and/or correlated event/event time/event location data in the recording unit for computing the traffic flow in the building from the event data.

7. The method according to one of the preceding claims, further comprising feeding the computed traffic flow to a call allocation unit of a control of a new/renovated people mover system after

replacement/renovation of the current people mover system.

8. The method according to one of the preceding claims, further comprising locating at least one of the monitoring units in an elevator car and using an acceleration sensor or magnetometer in one of the monitoring units to obtain event location data of the elevator car, wherein the location data is added to the correlated event/event time data.

9. The method according to one of the preceding claims, further comprising providing all entrance and exit areas of the people mover system with at least one monitoring unit.

10. An arrangement for monitoring of traffic flow in a people mover system in an area comprising elevators and/or escalators comprising:

at least two monitoring units temporarily located in an entrance/exit area of at least one people mover in the people mover system of the area, which monitoring units comprise at least one sensor for detecting event data and a power supply, wherein at least one of the monitoring units comprises a camera generating graphic data, and the graphic data from the camera is transferred into textual data for further processing.

11. The arrangement according to claim 10, wherein at least one of the monitoring units comprises a wireless communication link and further comprising a reporting unit having a wireless communication link for data transfer with the wireless communication link of the monitoring units.

12. The arrangement according to claim 10 or 11, wherein at least one of the monitoring units comprises an acceleration sensor.

13. The arrangement according to one of claims 11 to 12, wherein at least one of the monitoring units comprises a memory for storing the event data.

14. The arrangement according to claim 13, wherein the memory is detachable.

15. The arrangement according to one of claims 11 to 14, wherein a fence is provided in a lobby of the floor with a highest traffic to allow entrance of passengers to the entrance area of the people mover system only one after the other.

16. The arrangement according to one of claims 11 to 15, wherein a

recording unit is provided in the elevator shaft and comprises a memory for storing event data with a correlated event time and event location.

Claims:

1. Method for measuring the traffic flow in a building having a people mover system, in which method the following succession of steps is performed:
- at least two monitoring units (20) with at least one sensor (40) are temporarily installed in the vicinity of entrance- and/or exit area(s) (30) of at least one people mover (10),
- each monitoring unit is provided with a power supply (44) for being operated as an independent unit,
- events caught by the sensor are associated with the current event time and with the location/position of the corresponding monitoring unit as correlated event/event time/event location data, which correlated event/event time/event location data is used to compute a traffic flow in the building.

2. Method according to claim 1, wherein the data transfer of each of the monitoring units (20) is performed via a detachable memory (50).

3. Method according to one of the preceding claims, wherein the data transfer of each of the monitoring units (20) is performed via a wireless communication link (46).

4. Method according to one of the preceding claims, wherein events detected by the sensor are stored in a memory (48, 50) of the respective monitoring unit in connection with the current event time as correlated event/event time data.

5. Method according to one of the preceding claims, wherein events caught by the sensor (40) are transferred wirelessly to a recording unit (22) having a memory for storing all kinds of event data.

6. Method according to one of the preceding claims, wherein the event data and/or correlated event/event time data and/or correlated event/event time/event location data is processed in the recording unit (22) for computing the traffic flow in the building from the event data.

7. Method according to one of the preceding claims, wherein the event data is transferred from graphic data into textual data for the further processing.

8. Method according to one of the preceding claims, wherein the computed traffic flow is fed to a call allocation unit of the control of a new/renovated people mover system after replacement/renovation of the current people mover system.

9. Method according to one of the preceding claims, wherein at least one of said monitoring units (20) is located in an elevator car (14, 16, 18) and an acceleration sensor or magnetometer is used in said monitoring unit to obtain event location data of the elevator car, which location data is added to the correlated event/event time data to obtain correlated event/event time/event location data.

10. Method according to one of the preceding claims, wherein all entrance and exit areas of the people mover system (10) are provided with a monitoring unit (20).

11. Arrangement for the monitoring of the traffic flow in a people mover system (10) in an area comprising elevators (14, 16, 18) and/or escalators in line with a method of any of claims 1 to 10, which arrangement has following elements:
at least two monitoring units (20) temporarily located in an entrance/exit area (30) of at least one people mover (14, 16, 18) in the people mover system of the area which monitoring units comprise at least one sensor (40) for detecting event data and a power supply (44) , respectively.

12. Arrangement according to claim 11, wherein at least one of said monitoring units (20) comprises a wireless communication link (46) and the arrangement further comprises a reporting unit (22) having a wireless communication link for data transfer with the wireless communication link of the monitoring units.

13. Arrangement according to claim 11or 12, wherein at least one of said monitoring units (20) comprises acceleration sensor (52).

14. Arrangement according to one of claims 11 to 13, wherein at least one of said monitoring units (20) comprises a memory (48, 50) for storing event data.

15. Arrangement according to claim 14, wherein the memory (50) is detachable.

16. Arrangement according to one of claims 11 to 15, wherein a fence is provided in the lobby of the floor with the highest traffic to allow the entrance of passengers to the entrance area of the people mover system only one after the other.

17. Arrangement according to one of claims 11 to 16, wherein the recording unit (22) is provided in the elevator shaft (12) and comprises a memory for storing event data with a correlated event time and event location.