KEYWORD

System for signalling the space available to passengers of a transport system and available space for people in a waiting or transit area (inTO)

New Mobility

SOFTWARE

Subway

- Waiting areas
- ► Surveillance cameras

► Signalling

- ▶ Crowding indicators
- ► Transport system
- ► Available space

► Artificial Intelligence

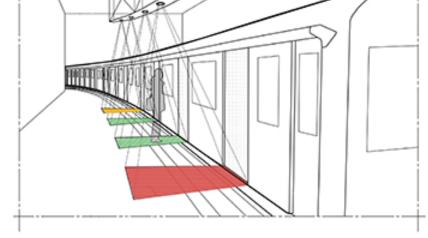
▶ Public transport stops

Innovations/advantages

Estimation of the space available to passengers on public transport in order to provide a signal to passengers as far in advance as possible to give them time to move to a position where they can easily board the means of transport; Signals or data indicative of the estimated space available to passengers are processed to represent three occupancy conditions: green, yellow or orange, and red; Users can move to the access points of the incoming means of transport by following the visual signals to enable them to get on the means of transport in the less crowded sections.

Application field

Public transport organizations (New York, London, Shenzhen, Hong Kong, etc.)



Product insight

 The inTO system, patented by Italdesign, is designed to provide passengers who use, for example, public transport, such as the subway, an advance estimate of the space available inside the compartment, so they can move to the easiest place to get on. The criterion underlying the signal is set based on the transport occupancy requirements, for example, restricted access according to social distancing requirements for COVID-19 emergency management. Travelers are informed of the available space according to three occupation conditions: green (free), yellow or orange (partially free) and red (occupied carriage). In the field of New Mobility, inTO is an extremely accurate system. It integrates monitoring and predictions of people flow thanks to the use of artificial intelligence and machine learning. The system is able to process a large amount of data using machine learning by adding variables such as data on flows, weather conditions, and exceptional events that result in heavy flows.

Patent Information

Priority Date - 15 November 2019

Application Number n.a.

Publication Number

IPR Dossier n.A22

Patent filed for less than 18 months, still subject to secrecy provisions

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