UNIVERSITÀ DEGLI STUDI DI TRIESTE

METHOD FOR THE DETECTION OF PEDESTRIAN TRAFFIC IN A SPACE

An innovation in pedestrian traffic

Category:
Engineering
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Brief description

The invention consists of a method to detect pedestrian traffic in a specific space. As is known, some needs connected to modern urban contexts – such as eco-sustainable mobility, urbanistic projects more attentive to vulnerable users, an effective management of especially crowded areas, etc. – generated an increasing interest in pedestrian mobility and the consequent need to collect and analyse data regarding pedestrian traffic in areas or spaces of interest.

Innovative aspects and main advantages

This invention provides a method of detection of pedestrian traffic in a given space, overcoming the drawbacks of pre-existing methods.
In this regard, the invention has several objectives. First, this method has an easy and versatile practical use. On a strategic level, it can also be employed effectively in different environmental contexts, such as both indoor and outdoor spaces, both large and extremely confined spaces, spaces with irregular geometries or spaces with variable illumination. Moreover, this method provides an easy and automatic collection of specific data about pedestrian traffic. Its practical implementation is relatively easy, and its costs are extremely competitive.

Applications

This method is suitable for pedestrian traffic detection based on digital image processing technologies. It is meant to process digital images of spaces of interest (e.g. urban, industrial or commercial areas) to detect the presence of pedestrians and their behaviour.

Potential market

This methodology is suitable for different fields, e.g. city planning, construction and manufacturing.

Development status

Available for the market.

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