StreetQR: INFORMATION ASSISTANCE DEVICE FOR STREET PLATES AND PLACES OF INTEREST

Description:

StreetQR is a device for capturing and forecasting information and multimedia content accessible through QR codes. More particularly, it is a device that can be installed on poles or on the facades of buildings, which can be incorporated into a plaque with the name of the street, to assist citizens and control centers of a city in obtaining information that can be collected in relation to to the place where it is installed. The information assistance device will have at least one information sensor, for example, a camera to capture information in real time relative to the street where the plate is located. The information may be sent to a remote central control unit for access or processing. Optionally, this information can be pre-processed locally by the device, by a processing unit before sending it. In addition, it can incorporate light indicators, a light sensor to illuminate or not the street panel, and at least one audio generator to acoustically signal or inform through a loudspeaker of emergency situations on the street. It also has a rechargeable battery and solar panels to recharge these batteries, so that it can also work without connection to the electricity grid, or when it is interrupted.

Keywords:
Smartcities, Informational Assistive Device, Information Panel, Qr Code

Sectors:
ICT, Electronics, Construction , Transport, Tourism, Culture and Education

Areas:
Hardware / Devices / Components, Electronics, Communications, Technological Improvements, Infrastructure improvements, Tourism, Infrastructures, Construction

Advantages:

The StreetQR device has the following advantages: - Provides information in a bidirectional way: giving useful street information to the citizen who passes through that street and delivering information about the street and its pedestrians or vehicles that circulate on it to a remote central. - The device can process the information captured both at the source (in situ) and at the destination, since it can, for example, pre-process the information collected on the city's pedestrian and vehicular flow in situ, before communicating it to the central . - In addition, each installed device can be assigned a unique QR code, with which the control unit can process how many accesses (with date and time) there have been from each of the installed devices. - The described components of the device make it simple and economical to manufacture, as well as easily installable on the streets or other places of interest.

Uses and Applications:

StreetQR has applications both in Smartcities and in private venues. It is an intelligent base to give and receive information both on public and private roads, giving contextual information to the citizen on the street through QR codes, which can be read quickly and easily by any smart mobile terminal (tablet or phone intelligent, for example) of the citizen. At the same time, it captures and transmits useful information to the control centers, whether in the city or in the private area (for example, entertainment venues).

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