WIRELESS PARKING SPACE CONTROL SYSTEM FOR PEOPLE WITH REDUCED MOBILITY

TECNOLOGÍA PATENTADA

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RESUMEN

The **Engineering Design and Technological Development (DIDET)** group from the ArtefactosLAB laboratory of the University of Alicante has developed a system to control and manage the use of parking spaces reserved for people with reduced mobility (PRM).

This **low-cost, wireless** system is designed to be used on public roads and installed underground. In this way, the user can check the status and location of parking spaces reserved for people with reduced mobility. In addition, it would allow the local police to know whether the driver who has parked in these spaces is authorised or not.

The group is looking for companies or institutions interested in acquiring this technology for commercial exploitation or to collaborate in the design and manufacture of other new devices that improve the quality of life of people with reduced mobility.

VENTAJAS Y ASPECTOS INNOVADORES

MAIN ADVANTAGES OF THE TECHNOLOGY

- Easier and faster search for free spaces for people with reduced mobility.
- It solves the problem of finding parking spaces in unknown municipalities and areas.
- It makes it possible to control whether users have authorisation to park in them, therefore, greater efficiency in the management of these spaces by local councils.
- The beacons are installed underground so that they are protected and, as they do not require conventional electrical installation, they are isolated and autonomous.
- Through the mobile application, users can also provide ratings on the state of conservation or operation of the parking spaces.

INNOVATIVE ASPECTS

- Use of electronic boards based on low-cost free hardware. These boards have much lower costs than systems with customised circuits, created and designed for a specific device.
- As it is a wireless system, it does not require conventional electrical installation or any other type of infrastructure.
- Its great autonomy is achieved by means of a rechargeable battery (autonomy of more than one year). To optimise energy consumption, the beacon goes to sleep every time a check is carried out and the status of the square has not changed.

APLICACIONES DE LA OFERTA

It is mainly aimed at the **Smart Cities** sector, more specifically, companies that manufacture telecommunications devices.

COLABORACIÓN BUSCADA

The group is looking for companies or institutions interested in acquiring this technology for **commercial exploitation** through patent licensing agreements or to **collaborate** in the design and manufacture of other new devices that improve the quality of life of people with reduced mobility.