Mobile 3D Visual Search

Identify objects with your mobile device

Mobile 3D Visual Search lets you identify 3D objects like buildings with your mobile device just by taking a photo of it.

Co-operation with EIT ICT Labs

The Royal Institute of Technology KTH in Sweden, Fraunhofer Heinrich Herz Institute in Germany and eDiam Sistemas from Spain have further developed the technology and the Mobile 3D Visual Search application under the EIT ICT Labs Smart Spaces Action Line.

Imagine being a tourist in a city where you have never visited before. How easy would it be to find out information on interesting sites just by taking a photo of it and getting the answer back on your mobile in just a few seconds. Or while watching a fashion show to buy the outfit you like just by taking a photo of it.This is exactly what Mobile 3D Visual Search enables you to do!

Most visual search solutions used on mobile devices identify real world objects as if they were just bi-dimensional / picture-like flat surfaces.

Our novel solution goes beyond that by addressing objects' three-dimensional nature. This way, it considerably improves the accuracy of the search and increases the chances that what you are provided with is exactly the answer you were looking for.

Our search solution has huge potential in many different sectors like marketing, tourism, video games, or robotics.

Societal Impact

Tourism and marketing will benefit widely from this novel solution. Self-driving cars could be the next big thing benefiting from 3D search.

Key Facts

1. Novel search solution based on 3D visual information.
2. First 3D solution on the market.
3. Commercialized by the Spanish eDiam Sistemas.

"Our search solution has huge potential in many different sectors like marketing, tourism, video games, or robotics." – Markus Flierl, Associate Professor, KTH

The technology was developed and demonstrated thanks to the support of EIT ICT Labs Smart Spaces Action Line. The partners of EIT ICT Labs working together were the Royal Institute of Technology (KTH) and Fraunhofer Heinrich Herz Institute. The project partner Spanish SME, eDiam Sistemas, is commercializing the product.

In cooperation with

Fraunhofer

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