

## Accessible routes with an app that creates them according to the needs of the user

**LOCATION:** Granada

**DURATION:** 1'40"

**SUMMARY:** Researchers from the University of Granada have developed an app that uses artificial intelligence to create accessible routes. It can be downloaded for free and allows users to design walking routes avoiding slopes or stairs, or including pedestrian and green areas. Its name is ProA and it is available on Android devices.

### VTR:

An app that, apart from distance, takes elements such as slopes or stairs into consideration when designing a walking route. That's what researchers from the University of Granada have designed, an app that uses artificial intelligence to create accessible routes.

**DAVID PELTA**  
**Computer Science Professor**

*"A smart system, that we define as multi-criteria, for the design of customized routes. Given a starting point and a destination, it designs a route according to the characteristics or demands of the user."*

ProA, that's the name of this app, is available for free on Android devices. It allows users to choose among different criteria, that they must prioritize when creating the route.

**MARINA TORRES**  
**Researcher Computer Science School**

*"It indicates the importance rate given to the criteria, and generates the route according to the priority given to each one of them."*

**DAVID PELTA**  
**Computer Science Professor**

*"If they want to avoid slopes, upward or downward, stairs, or if they want their route to include pedestrian or green areas."*

Once the criteria are set-up, when possible, the app will offer the user three options according to his search criterion. It is aimed at people with reduced mobility, elders, or people with temporary mobility impairments.

### USER

*"It's very useful for me because I have a knee injury, and I'm a little uncomfortable. It allows me to take easier paths, not only shorter. I prefer to walk a little longer but more comfortably."*

The app also allows users to download the map and walk the route offline. They plan to introduce more criteria for the design of cycling, tourist and leisure routes.

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