



## Device for selecting and annotating points in a 3D point cloud

### KEYWORDS

3D imaging  
3D scanner  
Medical imaging  
Image processing  
3D documentation of buildings

### LAB

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### TECHNOLOGY

- Digital tablet equipped with a pointing device
- Highlight points on a monitor by directing a virtual wand
- Application filters out points that are unlikely to belong to the selected image component
- Label and organize sub-components



*Selection of points in a 3D cloud*

### APPLICATIONS

- Construction industry and civil engineering: 3D documentation of buildings, refineries...
- Entertainment: 3D models for virtual reality
- Cultural heritage: replaces casting and simplifies restoration
- Forensic medicine: documentation of crime scenes
- Medical imaging

### ADVANTAGES

- Semi-immersive solution, more user-friendly than with desktop computer, no need for immersive platform
- Intuitive and user-friendly (won the 3DUI award 2014)

### DEVELOPMENT STATUS

- Prototype illustrating principle for
  - navigating in the point cloud
  - selecting specific point smoothly
  - annotating

<https://www.youtube.com/watch?v=cRc6kw2qtIU>

**Partnership:** *Looking for partnering opportunities*