**TOULOUSE TECH TRANSFER**

ACRUX: infrastructure-free indoor positioning software for a pedestrian

Today's pedestrian indoor positioning solutions require an expensive infrastructure (Wifi or BLE access points). ACRUX makes it possible to get rid of it for many use cases, by only using the sensors of a standard smartphone.

DESCRIPTION*

- Infrastructure-free pedestrian indoor positioning navigation system ("dead-reckoning") only based on:
  - The sensors of a smartphone held by the pedestrian
  - One initial reference point
- Non significant drift in a standard building
- No calibration or learning phase required
- Majority of smartphones supported
- Low energy consumption
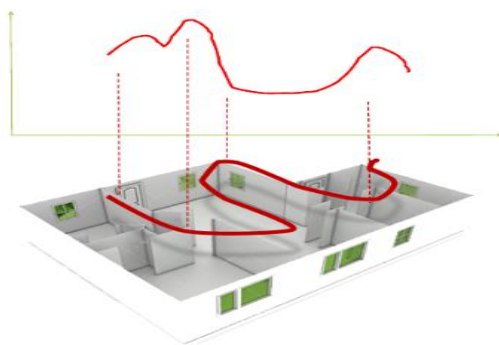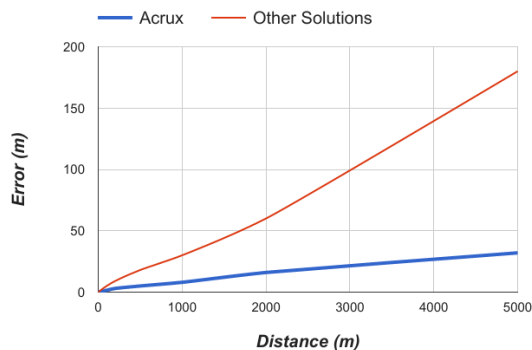
Crédit photo : IRIT.

TECHNICAL SPECIFICATIONS

Accuracy	~1 meter drift for 500 meters traveled
Energy consumption	Low
OS	Android, iOS
Required sensors	Accelerometer, gyroscope, barometer

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COMPETITIVE ADVANTAGES

- Infrastructure-free
- Use standard smartphones
- Low drift
- 3D positioning

APPLICATIONS

- Security
- Defence
- Geomarketing
- Visually impaired people assistance
- Entertainment

INTELLECTUAL PROPERTY

- Patent
- Software

DEVELOPMENT STAGE

- Technology validated at lab level

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LABORATORY

- IRT Team

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