

Self-contained Indoor Pedestrian Navigation by Means of Human Motion Analysis and Magnetic Field Mapping

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- **Errors regarding the heading/ yaw(z)**

- Disturbances of the earth's magnetic field inside of buildings → error of position
- (Building information)
- Magnetic field mapping/ magnetic fingerprinting

- **Errors regarding the distances (dx,dy,dz)**

- Human motion analysis
- Improved movement recognition
- Movement types "walking",^{b)}"running" and "crawling"

