Navigating MazeMap: indoor human mobility, spatio-logical ties and future potential

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Introduction

GPS

Location based services

Most of the time is spent indoors in urban areas

Indoor positioning techniques

Case study
In a Nutshell

Analyze data from MazeMap logs
Distribution of way-finding requests from MazeMap
Build a map and find logical ties between locations
Specifically for NTNU, but the insights and potential uses apply generally
Data Sets

MazeMap Logs

September 2011 - March 2013

Both wayfinding and geopos requests
Requests Per Building

Fig. 1: Number of requests per building (top 30, log scale)
Temporal distribution

Fig. 3: Temporal distribution of wayfinding requests (log scale)
Fig. 5: Human mobility map: routes calculated from wayfinding requests
Logical Connections
Discussion

- On-campus
- Shopping Malls
- Hospitals
- Emergency preparedness
- Human mobility research
- Challenges
Thanks