IPIN competition 2016 - Track 1

Sponsored by

KICS :::-

The Korean Institute of Communications and Information Sciences Track 1 Smartphone based Chairs: Filippo Palumbo Antonino Crivello



International Conference on Indoor Positioning and Indoor Navigation

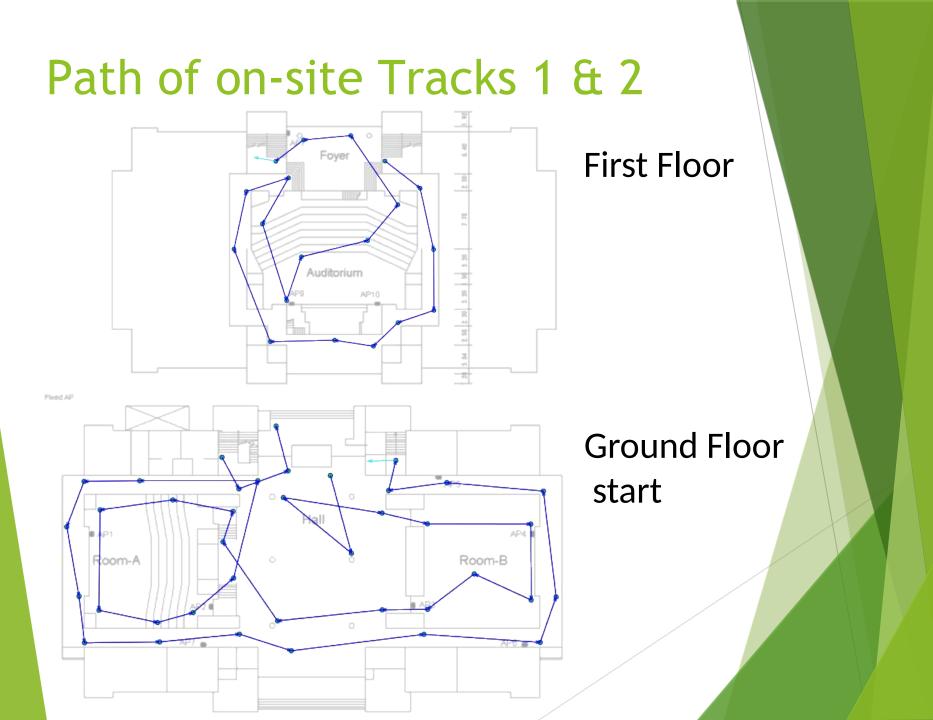


EvAAL framework

Format of Smartphone Track

- Goal: assess and measure the ability of competing systems to accurately identify their position inside a large, public indoor area
- The accuracy score is the third quartile of the localisation errors
- A penalty is added for each floor error
- The path is the same for each test competitor, takes approximately the same time and passes through all the keypoints in the same order

Pauses, loops, natural strides



Path characteristics of Smartphone Track

- 58 Keypoints
- 2000 m² indoor
- 2 floors
- 300+130+20 = 450 m length
- 10' ± 1' duration
- 2 long (1'), 4 short (10") pauses
- 1 upstair, 1 downstair

Smartphone Track results



Team	Origin	3° quartile of error
SNU-NESL	Seoul (KR)	8.8 m
MCL	Yeungnam (KR)	16.8 m
XMU	Xiamen (CN)	> 25 m
HaLo	Hallym (KR)	> 25 m