



IPIN 2021
ELEVENTH INTERNATIONAL CONFERENCE ON
**INDOOR POSITIONING
AND INDOOR NAVIGATION**
29 Nov. – 2 Dec. 2021, Lloret de Mar, Spain

Track 3

Smartphone

Joaquín Torres-Sospedra, Antonio R. Jiménez, Antoni Pérez-Navarro

Sponsored by



frontiers

Introduction

6th year in a row!



CAR (ID 10)
1 floor



UAH (ID 20)
4 floors



UJIUB (ID 30)
6 floors



UJITI (ID 40)
4 floors



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Introduction

6th year in a row!



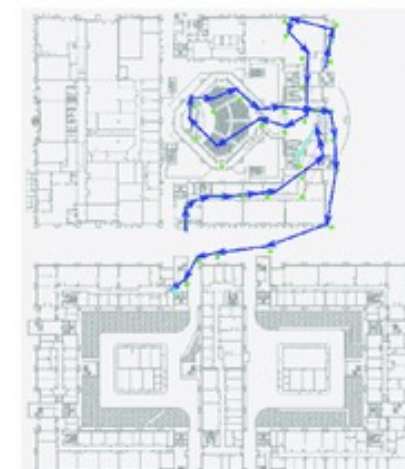
Second floor



First floor



Ground floor



Introduction

6th year in a row!



Challenges

Two floors
Multiple devices
Seven users
BLE based Positioning
Android 9 & 10
Auditorium

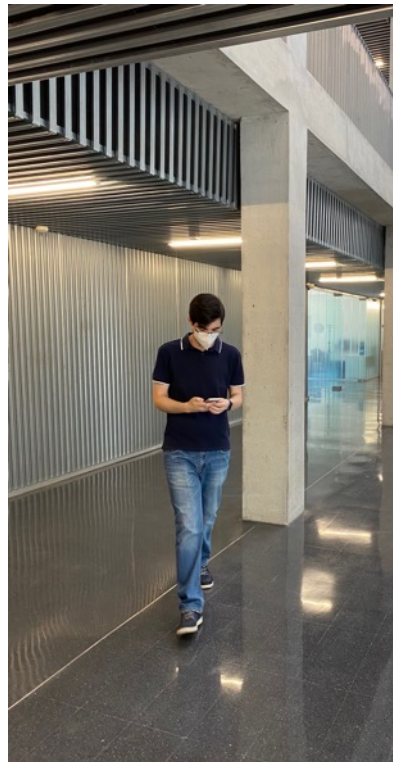


Challenges

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Multiple devices
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BLE based Positioning
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Challenges



Challenges





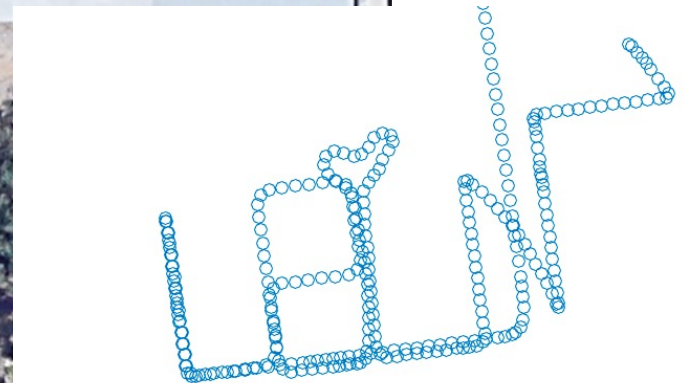
Results

1	S321c4e1f731	4.43m
2	S3213e11ae09	7.85m
3	S321e9235655	67.8m
4	S321891bb754	153.02m

Results

1	S321c4e1f731	4.43m
2	S3213e11ae09	7.85m
3	SCU	67.8m
4	XMU	153.02m

Results



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Results



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Results

1	GD-WHU	4.43m
2	GHENT	7.85m
3	SCU	67.8m
4	XMU	153.02m

CONGRATULATIONS

WINNER
GD-WHU





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Smartphone Positioning Algorithm Design for IPIN-2021 Competition

Team Members: Bin Han, Jian Kuang, Taiyu Li,
Shuai Huang, Tao Zhang

Speaker: Bin Han
December 2th, 2021

GD-WHU

