

# IPIN Competition 2020

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## Why a competition

- Indoor localisation has seen technical advances for for over a decade, yet market applications are still far away
- Standardisation is lagging behind
- No interoperability standards
- Few studies on security and privacy
- No general way of comparing systems



### The EvAAL framework

- A criterion for performing comparison among indoor localisation systems
- Born as the foundation of the EvAAL competition 2011-2013
- Base for the IPIN competitions 2014-2020
- Focused on realistic, real-time, black-box system evaluation



### Attendance of IPIN competitions

Edition		On-site		Off-site		Overall	
Year	Location	Tracks	Competitors (submissions)	Tracks	Competitors (submissions)	Tracks	Competitors (submissions)
2014	Busan (KR)	1	7 (11)			1	7 (11)
2015	Banff (CA)	2	6 (8)	1	4 (4)	3	10 (12)
2016	Alcalá (ES)	2	12 (14)	2	7 (9)	4	19 (23)
2017	Sapporo (JP)	2	10 (18)	2	10 (11)	4	20 (29)
2018	Nantes (FR)	2	15 (17)	2	19 (22)	4	34 (39)
2019	Pisa (IT)	2	10 (16)	3	20 (26)	5	30 (42)
2020	online			5	22 (32)	5	22 (32)



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#### **Based on the EvAAL framework**

Track 3: Smartphone (off-site)

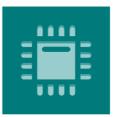
Track 4: Foot-mounted (off-site)

Track 5: xDR in manufacturing (off-site)

Track 6: On-vehicle smartphone (off-site)

Track 7: Channel impulse response (off-site)





sensors

an Open Access Journal by MDPI

	Track 3	Track 4	Track 5	Track 6	Track 7	Total
Submissions	14	7	4	5	2	30
Competitors	11	3	2	3	1	22



### Recording

We will made the registration of the event available, after asking persmission to the speakers

### Prizes

- Winners' prize is 850€ for Tracks 3, 4, 6, 7
  - runner-up prizes awarded for Tracks 3, 4
- Winner's prizes for the 2 Track 5 substracks is 2400 € overall

### Publishing your results

- now March 2021
  - IEEE Sensors Journal Special Issue on
    Advanced Sensors and Sensing Technologies for indoor positioning and navigation
- March 2021 June 2021 (estimate)
  - IPIN Conference
- April 2021 September 2021
  - MDPI Sensors special issue (to be launched)
- October 2021 February 20220
  - Frontiers Special special issues (to be launched)





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Apologises for connection problems and for glitches while switching speakers

Thank you!

see you next year