

## Detailed description of LogFiles and supplementary materials for the Track 3 IPIN competition

This document explains the database files available <http://indoorloc.uji.es/ipin2017track3/> made available to competitors for track 3 IPIN competition and the detailed description of CFC of track 3 available at [http://evaal.aaloo.org/images/2017/annex/track3\\_ipin2017competition.pdf](http://evaal.aaloo.org/images/2017/annex/track3_ipin2017competition.pdf).

### Number of Buildings:

A total of 3 different buildings will be tested. The competitors will be required to train and test the positioning performance in all 3 buildings. The goal is to test the generality and adaptability of competitor’s algorithms to different environment conditions. A short description of these buildings, and their ID numbers, is shown below:

1. CAR (ID 10): Main building of CAR center (CSIC, Arganda, Madrid, Spain). This building has only one level (0).



2. UJIUB (ID 30): Building located at the University Jaume I (Castellón, Spain). This building has 6 levels (0,1, 2, 3, 4, 5)



3. UJITI (ID 40): Building located at the School of Technology from the University Jaume I (Castellón, Spain). ). This building has 4 levels (0,1, 2, 3)



**CAR: LogFiles and supplementary files available at database site**

Site: <http://indoorloc.uji.es/ipin2017track3/>

- **Supplementary material:**
  - **Map floors** of building and calibration for geo-reference WGS-84:
    - 1 jpg bitmaps for the floor and
    - 1 calibration text file with “\*.cal” extension (contains the Latitude, Longitude of central pixel in image, the image CCW rotation in order to be aligned to the North, and the scale of size of pixels).
  - **Routes** made available for training:
    - Route 01-2017 with 75 ground truth points annotated.
    - Route 02-2017 with 53 ground truth points annotated
    - Route 03-2017 with 22 ground truth points annotated
  - **Routes** made available for validation:
    - Route 04-2017 with 75 ground truth points annotated
  - **BLE4** location
- **LogFiles** with ground-truth inserted (POSI lines):
  - Training Logfiles:
    - 3 log\_files for Route 01-2017.
    - 3 log\_files for Route 02-2017.
    - 3 log\_files for Route 03-2017.
  - Validation Logfiles:
    - 3 log\_files for Route 04-2017.

**UJIUB: LogFiles and supplementary files available at database site**

Site: <http://indoorloc.uji.es/ipin2017track3/>

- **Supplementary material:**
  - **Map floors** of building and calibration for geo-reference WGS-84:
    - 5 jpg bitmaps for the floor and
    - 1 calibration text file with “\*.cal” extension (contains the Latitude, Longitude of central pixel in image, the image CCW rotation in order to be aligned to the North, and the scale of size of pixels).
  - **Routes** made available for training:
    - Route 01-2017 with 58 ground truth points annotated.
    - Route 02-2017 with 58 ground truth points annotated
    - Route 03-2017 with 59 ground truth points annotated
    - Route 04-2017 with 59 ground truth points annotated
  - **Routes** made available for validation:
    - Route 05-2017 with 60 ground truth points annotated.
    - Route 06-2017 with 60 ground truth points annotated
    - Route 07-2017 with 106 ground truth points annotated
    - Route 08-2017 with 106 ground truth points annotated
  - A few **WiFi AP location**
- **LogFiles** with ground-truth inserted (POSI lines):
  - Training Logfiles:
    - 3 log\_files for Route 01-2017.
    - 3 log\_files for Route 02-2017.
    - 3 log\_files for Route 03-2017.
    - 3 log\_files for Route 04-2017.

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- Validation Logfiles:
  - 1 log\_file for Route 05-2017.
  - 1 log\_file for Route 06-2017.
  - 1 log\_file for Route 07-2017.
  - 1 log\_file for Route 08-2017.

**TI: LogFiles and supplementary files available at database site**

Site: <http://indoorloc.uji.es/ipin2017track3/>

- **Supplementary material:**
  - **Map floors** of building and calibration for geo-reference WGS-84:
    - 3 jpg bitmaps for the floor and
    - 1 calibration text file with “\*.cal” extension (contains the Latitude, Longitude of central pixel in image, the image CCW rotation in order to be aligned to the North, and the scale of size of pixels).
  - **Routes** made available for training:
    - Route 01-2017 with 106 ground truth points annotated.
    - Route 02-2017 with 10 6ground truth points annotated
    - Route 03-2017 with 106 ground truth points annotated
    - Route 04-2017 with 106 ground truth points annotated
  - **Routes** made available for validation:
    - Route 05-2017 with 30 ground truth points annotated.
    - Route 06-2017 with 29 ground truth points annotated
- **LogFiles** with ground-truth inserted (POSI lines):
  - Training Logfiles:
    - 1 log\_file for Route 01-2017.
    - 1 log\_file for Route 02-2017.
    - 1 log\_file for Route 03-2017.
    - 1 log\_file for Route 04-2017.
  - Validation Logfiles:
    - 1 log\_file for Route 05-2017.
    - 1 log\_file for Route 06-2017.