Report / evaluation

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Organization of report

1. Tests of your **detection node**: 9 rosbags, 9 points;
   For each test, mention if it works or not. If it does not work, explain why.

2. Tests of your **tracking node**: 5 rosbags, 5 points;
   For each test, mention if it works or not. If it does not work, explain why.

   For these tests of detection and tracking on provided Rosbags:
   Keep it short: one sentence per rosbag. If you find some cases where it doesn't fully work, you can state whether you think it's because your implementation is wrong, or if you think the algorithm we asked you to implement simply cannot handle that case.

Note: Automated evaluation will be performed on the rosbags. Make sure all thresholds and parameters are set to the original values (see datmo.hpp: cluster size, dynamic threshold, etc).

Organization of report

3. **Design 3 test scenarios** with follow_me behavior, 6 points:

   Even with a perfect implementation of the algorithm we studied in the lecture, some cases or situations lead to a person being lost, or tracking switching between people, or false positives.

   These tests must analyse scenarios **where the algorithm DOES NOT work**, even when implemented correctly. At lease one of these tests must test the uncertainty / frequency mechanisms of the *track_a_person* function. Each test scenario must be illustrated by rviz screenshots AND a rosbag recording.

   See "*How to perform tests and identify interesting situations*" document for instructions on how to design these tests, and what to write in the report.

Note: During the last lecture, an example test case and analysis was provided. You cannot use that test case and analysis in your report. You must design new tests covering other parts of the algorithms.

Organization of report

- The report must be sent by email to:
  philip.scales@univ-grenoble-alpes.fr
  deadline Sunday 15/02/2026 18:00;
- The email should contain a pdf file + zip of your source files (*ros2_ws/src/follow_me* folder) + Rosbag files for part 3;
- The report should not be more than 6 pages (max 2 pages for parts 1&2, max 4 pages for part 3);
- Reports not in pdf format and source files not in zip format will not be opened;
- The report should be done by one group (2 (or 3) students).