

Preamble:

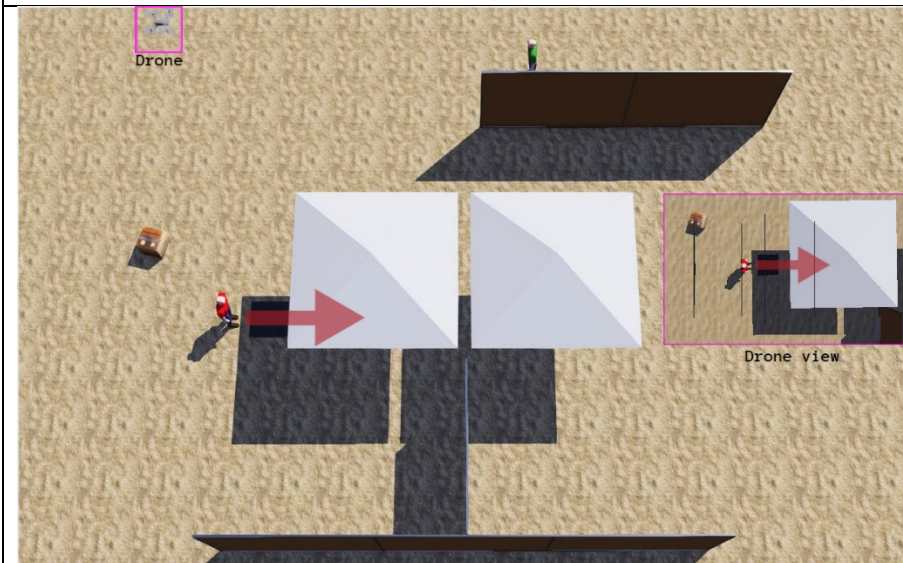
You will be presented with a scenario based on a hide-and-seek game. In this scenario, the drone and the human wearing the green t-shirt are a team, namely, the aerial and ground team-member respectively. Both team-members work collaboratively aiming to target the opponent team, i.e., the human wearing the red t-shirt. The scenario presents 2 figures depicting an initial situation, for instance at time-step t , and a final situation, for instance at time-step $t+1$, although it might be a future time-step as well.

The figures show the general aerial view of the situation, the drone view camera (see pink boxes for the drone and the drone view) and a prediction of the team-mate and/or enemy behaviour (see red arrows for the predicted movement). The drone can only see small areas and must determine, based on what the human is doing, the best location for it to search. It must provide details of where it is going, why, and what it sees as a dialog to the human team members. It can also recommend an action for the human team member to perform.

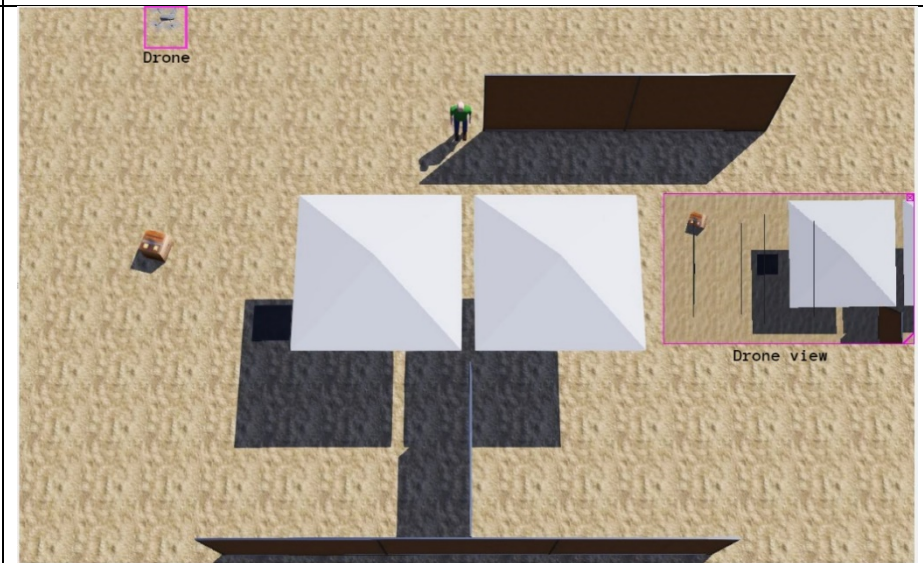
Please note: The drone is controlled by an Artificial Intelligence algorithm not a human

Scenario 4: Opponent hidden under gazebos with unclear next behaviour.

Initial situation



Final situation



Question (for the drone): Why did you stay at the same position?

Explanation: I stayed at the same previous position because I cannot determine the opponent's behaviour or from where the opponent will escape the gazebos and, based on previous ground team-member behaviour, I predict a team-member will move from the other side of the wall to target the opponent at the next time-step.