

Preamble:

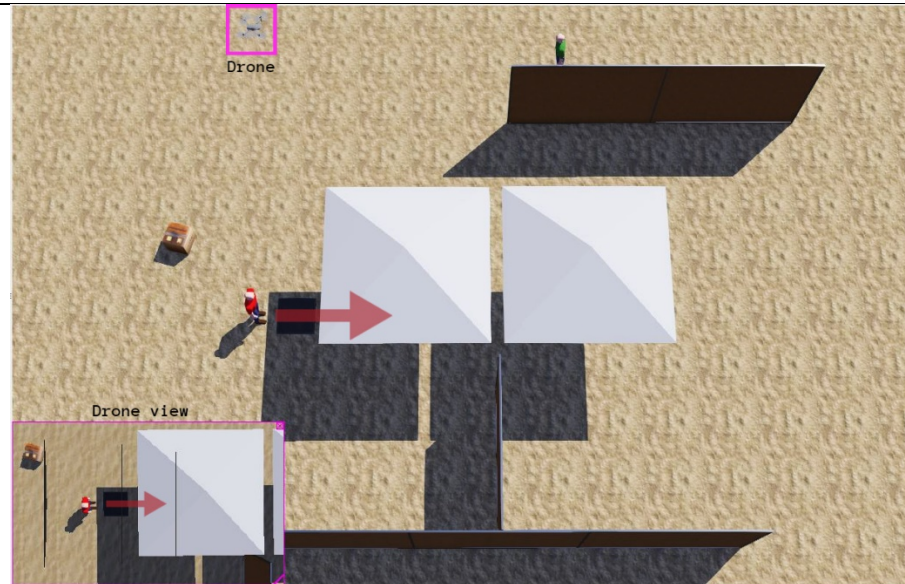
You will be presented with a scenario based on a hide-and-seek game. In this scenario, the drone and the human wearing the green t-shirt are a team, namely, the aerial and ground team-member respectively. Both team-members work collaboratively aiming to target the opponent team, i.e., the human wearing 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.

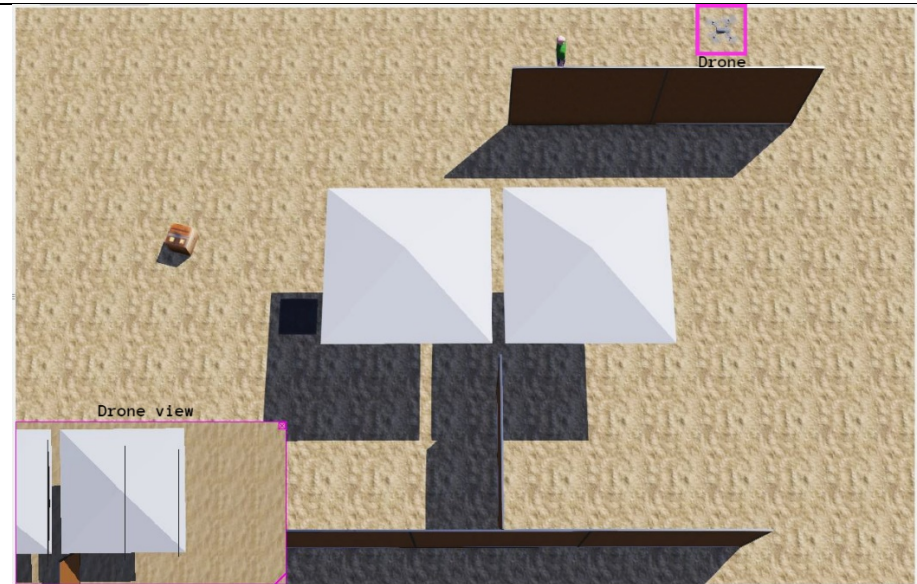
Please note: The drone is controlled by an Artificial Intelligence algorithm not a human

Scenario 5: Drone moves actively looking for opponents.

Initial situation



Final situation



Question (for the drone): Why did you move to the right?

Explanation: I moved to the right of the gazebos because, based on the previous ground team-member's behaviour, I predict the ground team-member will not move from their position and, based on the previous opponent's behaviour, I predict the opponent will get out of the gazebos to the right. Therefore, I have a higher probability to target the opponent from that position at the next time-step.