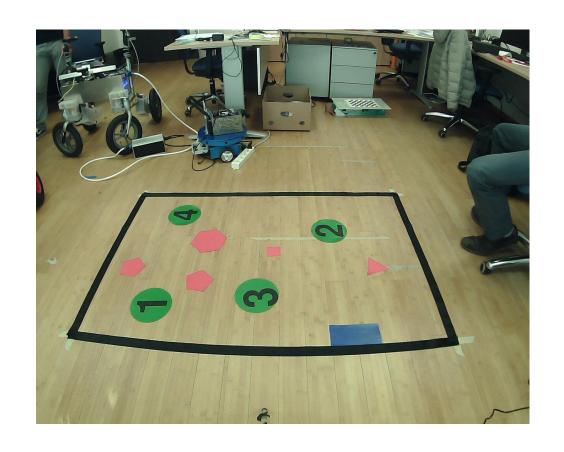
Laboratory of Applied Robotics Assignment 1: Map Generation

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Data

 Set of chessboard images for calibration

 Three images, corresponding to the same map layout taken from different camera poses



Tasks

1. Intrinsic and extrinsic camera calibration:

determine camera matrix and distortion coefficients, and perspective transformation matrix

2. Map generation: determine the layout of the map, the shape and position of the boundaries, obstacles and gate

3. POI identification: determine the position and the order of the points of interest in the map

Organization

Work done individually or in small groups (up to 3 students)

Implementation of the code to solve the given tasks

Production of the technical documentation

Presentation and discussion of the work