

Robotics in Construction Automation

Assignment 8

Due : May 1 2008 2:20pm

Assigned Reading

Molfino, R. M., Razzoli, R. P. and Zoppi, M. (2008). "Autonomous Drilling Robot for Landslide Monitoring and Consolidation," *Journal of Automation in Construction*, 17, pp.111-121.

Description

Please read the assigned reading and answer the following questions. The answers need to be clear and straight to the point. Each answer can be a short paragraph but should be limited within 300 words and one page (including figures). If you refer any material other than this assigned reading, please cite the reference as a footnote. Please submit the assignment before the due date before the class and please list your name and school number in the right-upper corner of the first page.

Questions

1. The drilling robot needs to work in a steep rocky wall. Please explain how the robot keeps stable and balance during working in the challenge environment?
2. Please briefly explain the manipulator for handling the rod finally adopted in the drilling robot.
3. Please explain the mechanism to store and load the rods developed in the research.