

6.894 Legged Locomotion in Robots and Animals

Handout No. 05

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Problem Set 3

Problem 1

One goal of building bipedal walking robots is to help gain insight into how bipedal animals walk. Yet no one yet knows how animals control bipedal walking. Therefore robotics researchers try various approaches from playing back joint trajectories to developing heuristic algorithms.

1.1 How do you think you control walking?

1.2 What sort of experiments could be done to verify or disprove your hypotheses?

1.3 Write up a flow chart illustrating your answer to 1.1 above (i.e. illustrate the algorithm for how you might control walking).