Reactive Balance Control in Walking based on a Bipedal Linear Inverted Pendulum Model







Objective

- Develop a reactive balance controller for foot placement in biped legged locomotion
- Verify the results from F.Parietti, G.Hartmut (2011)

Motivation

- A simple model for gait analysis
- Base for Biped Linear inverted Pendulum (bLIP) model in 3D



Results

Reactive Balance Controller Based on BLIP

Matlab-Simulink Simulation of BLIP

Future Work

- Debug the controller model
- Compare results with results from F.Parietti, G.Hartmut (2011)
- Extend the theory into 3D



Questions?

