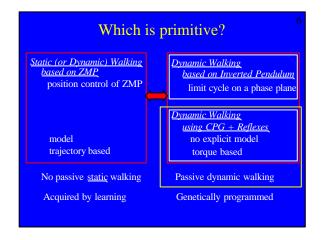
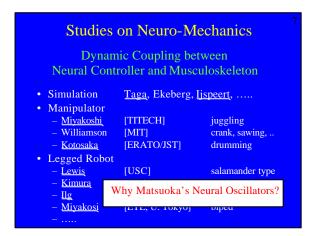
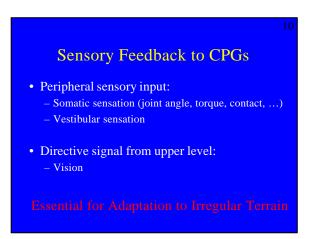
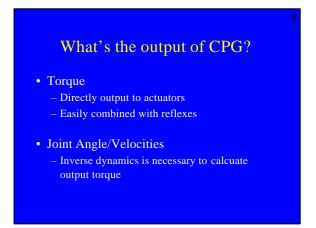


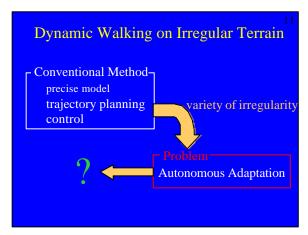
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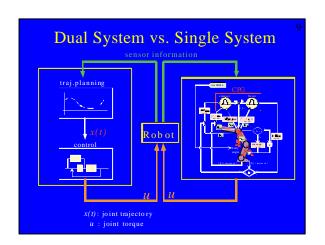


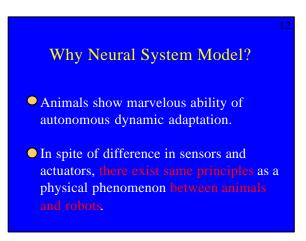


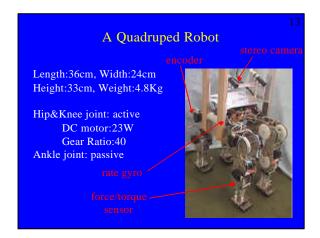


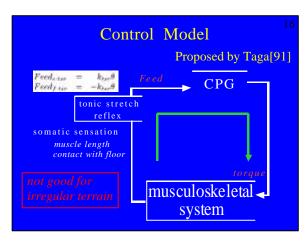


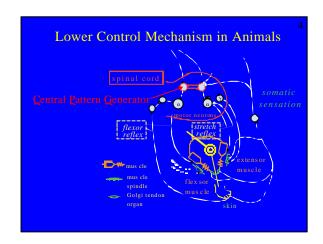




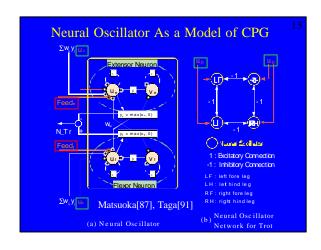




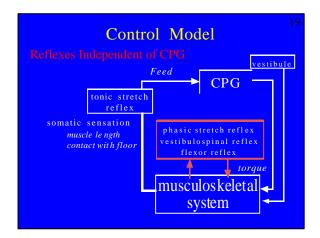


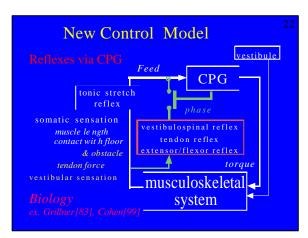


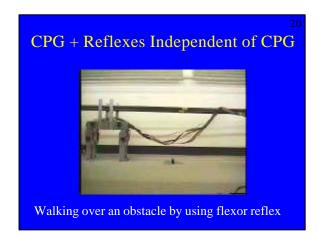


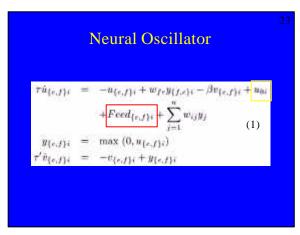


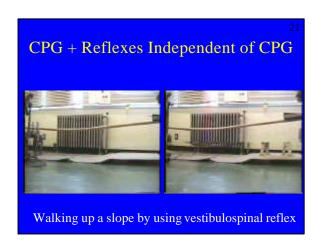


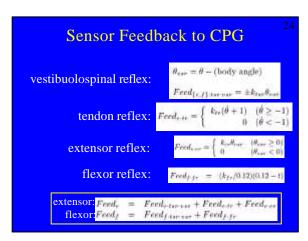


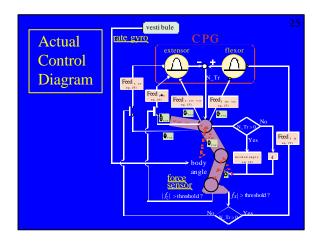




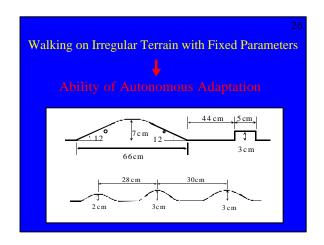


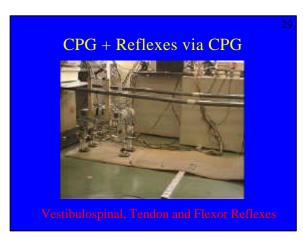




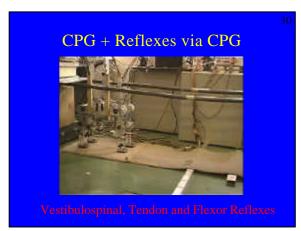


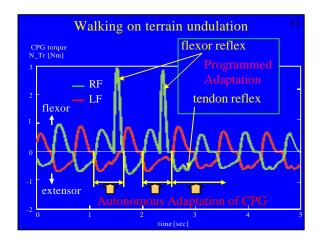


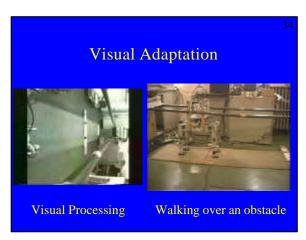


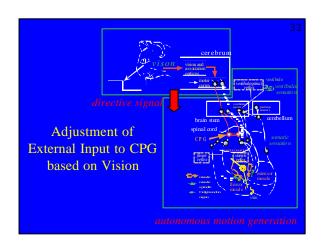


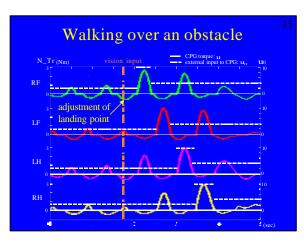


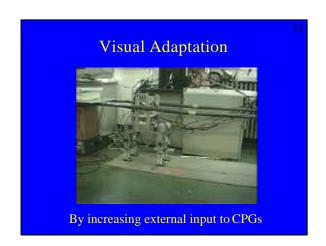


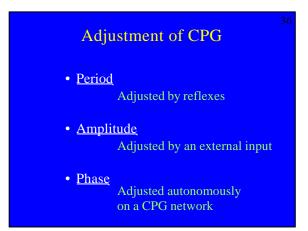


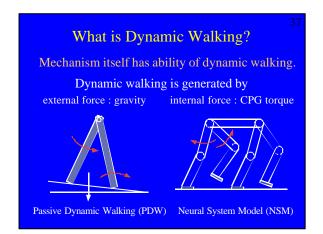






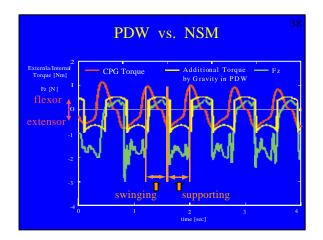


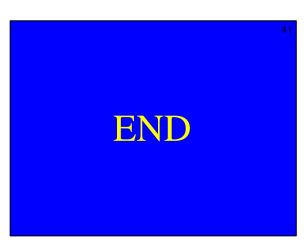




Conclusion & Future Work

- Autonomous adaptive dynamic walking on terrain of medium degree of irregularity by using reflexes via CPG
- Effectiveness
- Well coordinated system by centering CPG
- 3D dynamic walking on 3D irregular terrain





Mechanical Design & Coupling with a Neural System

- Small gear ratio & Large torque motor
 - Backdrivability of a joint for passive adaptation
 - Quick motion
- Dynamics of mechanical system is encoded into parameters of neural system
 - Relation between the leg length and the frequency of CPG