



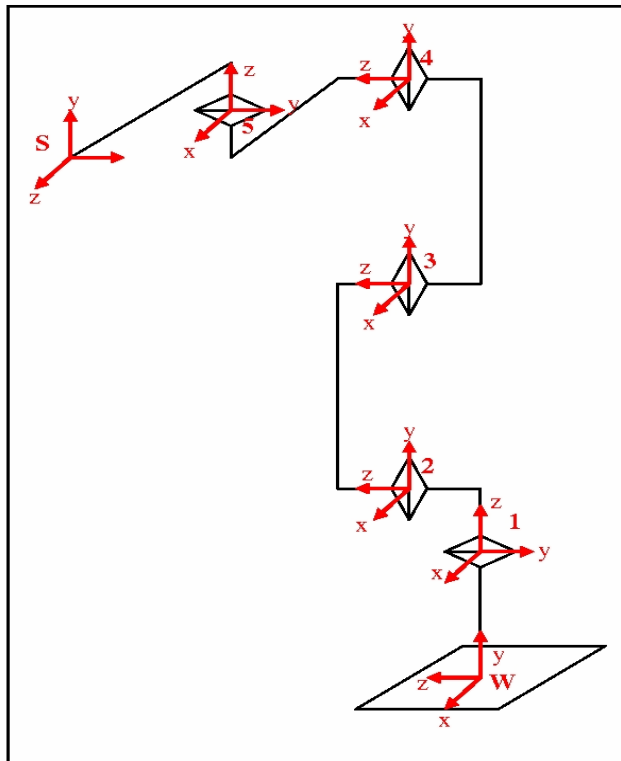
DeMaMech Exchange Program 2005-2006



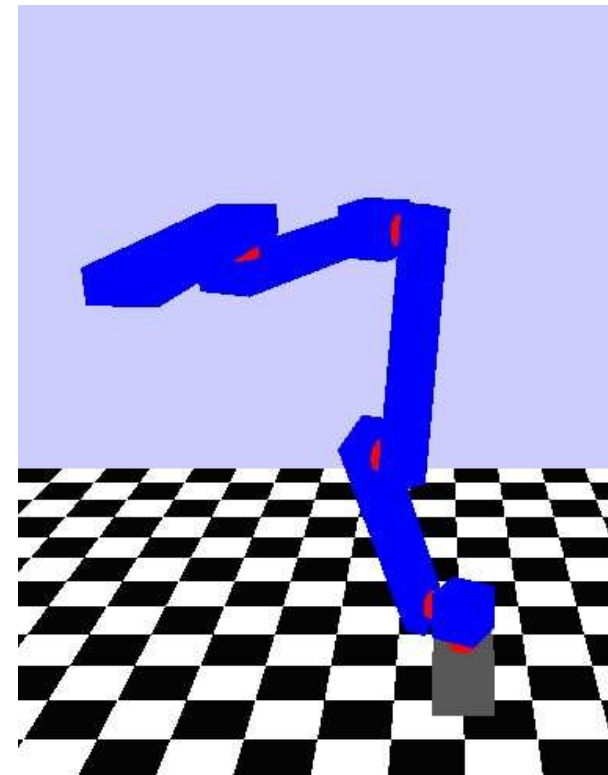
Personal Data

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Host University	Keio University
Host Supervisor	Prof. Toshiyuki Murakami
Research Topic	Intelligent Control in Human Assist Systems
Location	Hiyoshi, Yokohama

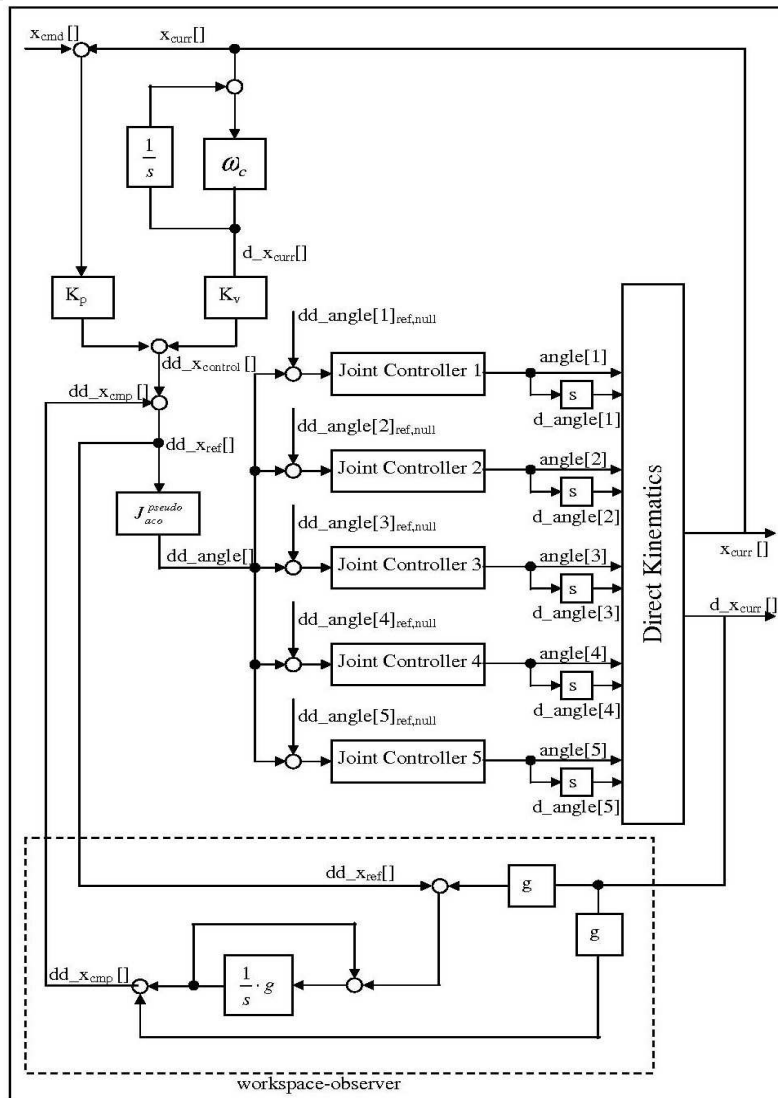
Redundant Manipulator



Kinematics



Simulation in OpenGL



Control Algorithm

- Workspace and Nullspace Tasks
- PD-Controller
- Disturbance-Observers at joints
- Workspace-Observer

$$\ddot{q}^{ref} = \ddot{q}_x^{ref} + \ddot{q}_{null}^{ref}$$

Exchange Student Life

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