

Summary

- **Japanese University:**

Researching in English - Long working days - Own desks for all students - Japanese Language course available - students don't speak English very well, Staff members do.

- **Research:**

Parallel kinematics machine tools - Mathematical machine model - milling experiments - individual approach is European style - writing paper for conference - present results at machine manufacturer.

- **Life in Japan:**

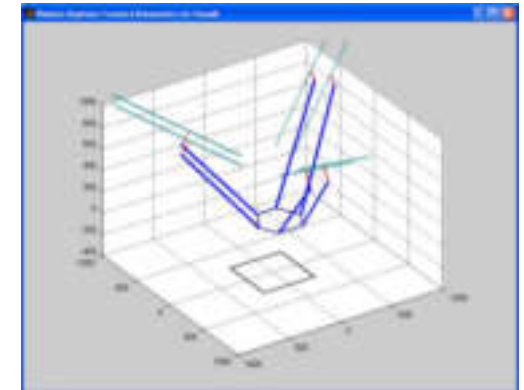
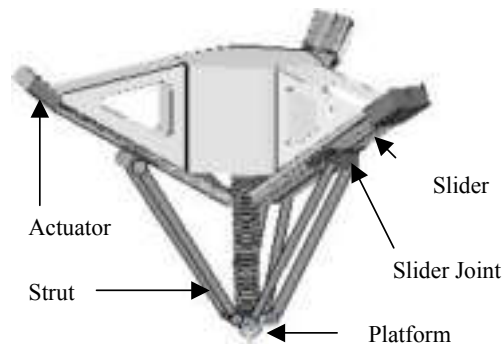
With other exchange students I had a good time - Japanese people are shy and friendly - there are many nice traveling/sightseeing possibilities -Vegetables and fruits are expensive.

Research (1)



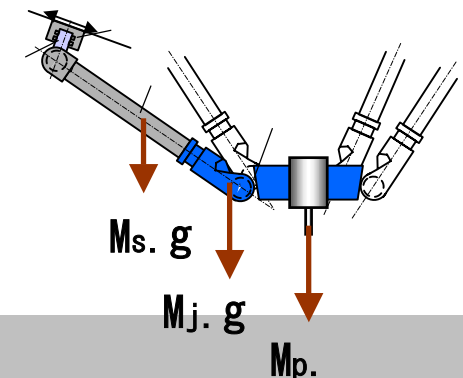
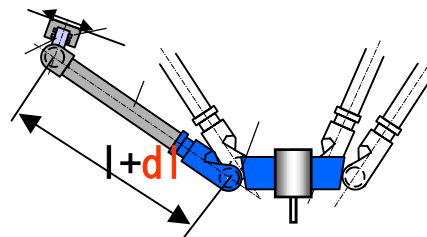
“Improvement of machining accuracy for parallel kinematics machine tools using error prediction and compensation for CAM application”.

Modeling Machine Kinematics:



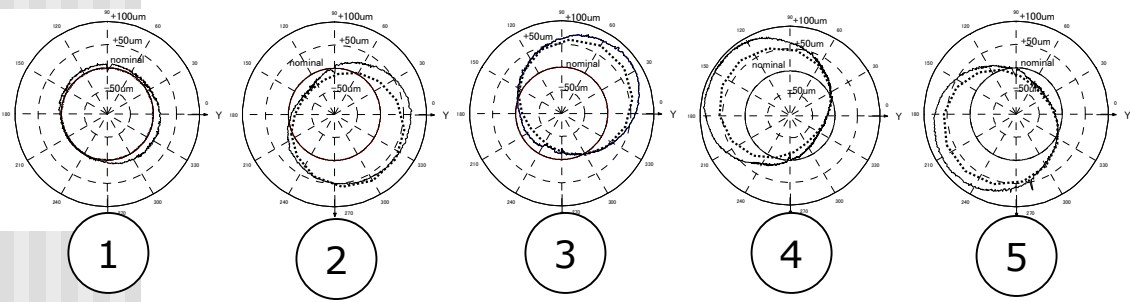
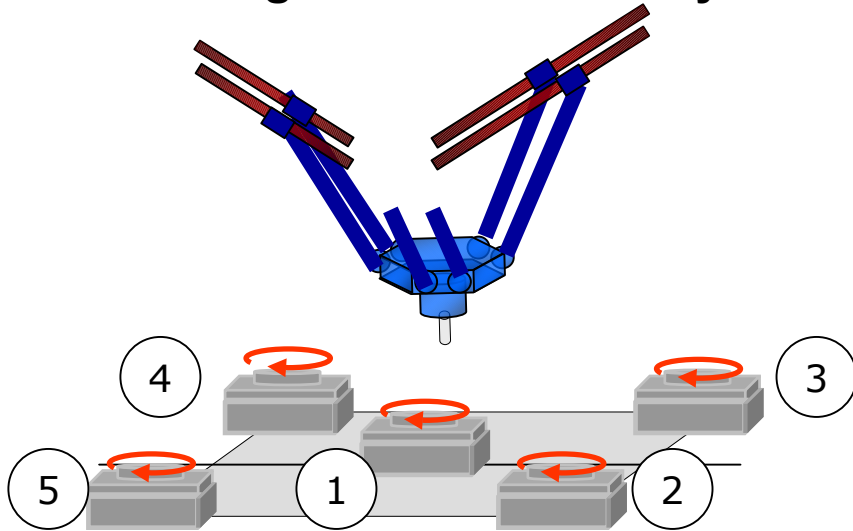
Modeling possible errors:

- Gravity influences
- Geometrical Error
- Calibration Errors



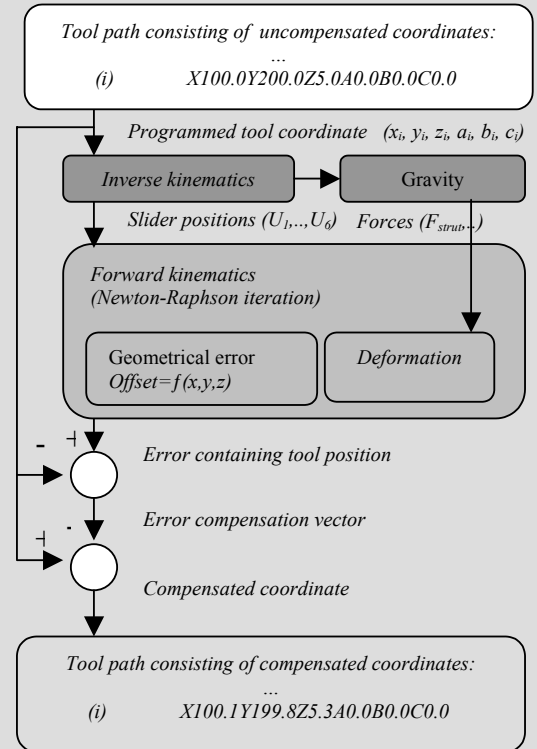
Research (2)

Measuring machine accuracy:

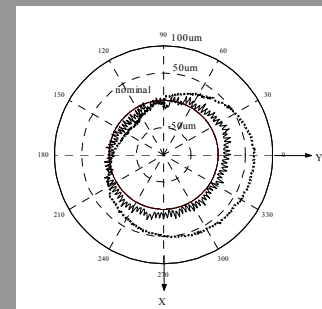


Error Prediction Model:

For coordinate $i = 1:n$,



Error Compensation:



Uncompensated (dashed line)

Compensated — (solid line)

Exchange Student Life

- Temples
- Kaiten Sushi
- Karaoke
- Traveling
- Sports
- Shopping
- Earthquake
- Chopsticks
- Busy with study



in one sentence:

**“Hard working at university,
in free time a beautiful place to live”**