

Research and Life in Japan as a JSPS Fellow

Erfu Yang

School of Engineering and Electronics
The University of Edinburgh

2nd March, 2006



Host Professor and University

- Professor T Mita.
- Department of Mechanical and Control Systems Engineering at the Tokyo Institute of Technology, Tokyo, Japan.
- Worked on nonlinear formation control of Multiple autonomous vehicles systems.



Autonomous formation systems

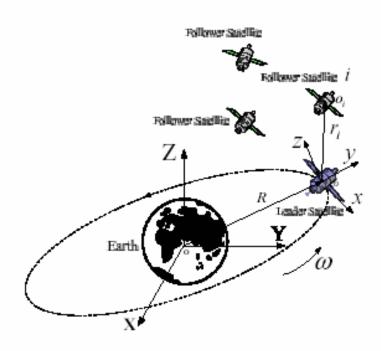
- Unmanned aerial vehicles (UAVs)
- Small satellites
- Mobile robots and ground vehicles
- Autonomous underwater vehicles (AUVs) and fish-like robots, etc.



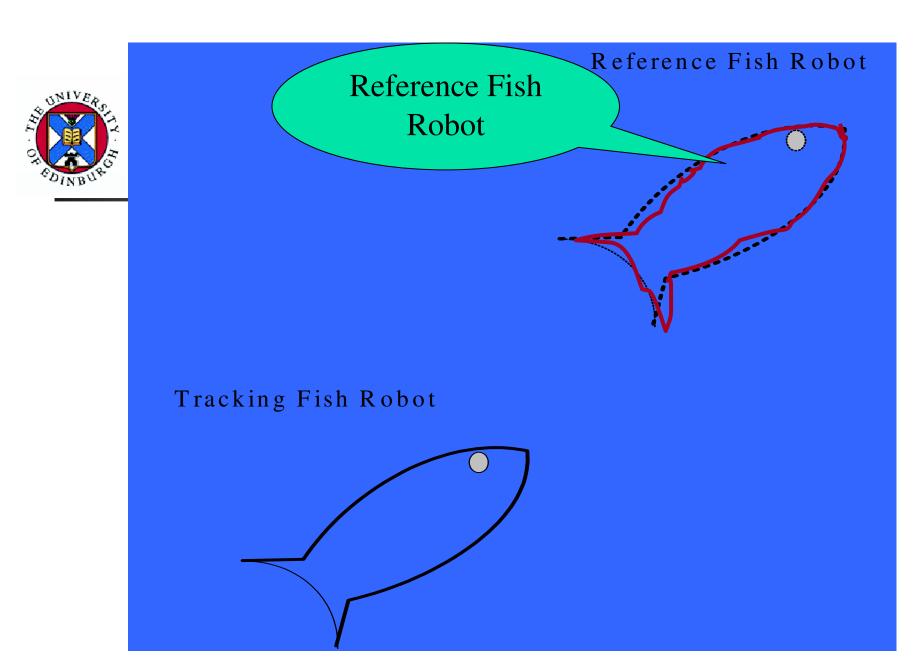


Formation Control of UAVs





Multiple satellite formation flying



Formation Control and Tracking of Fish Robots



JSPS: A Research Opportunity

- Japan has an international research level on the development and applications of robots and related systems.
- Under its support, I had an opportunity to advance my research in Japan.
- To conduct collaborative research with my host professor Mita.



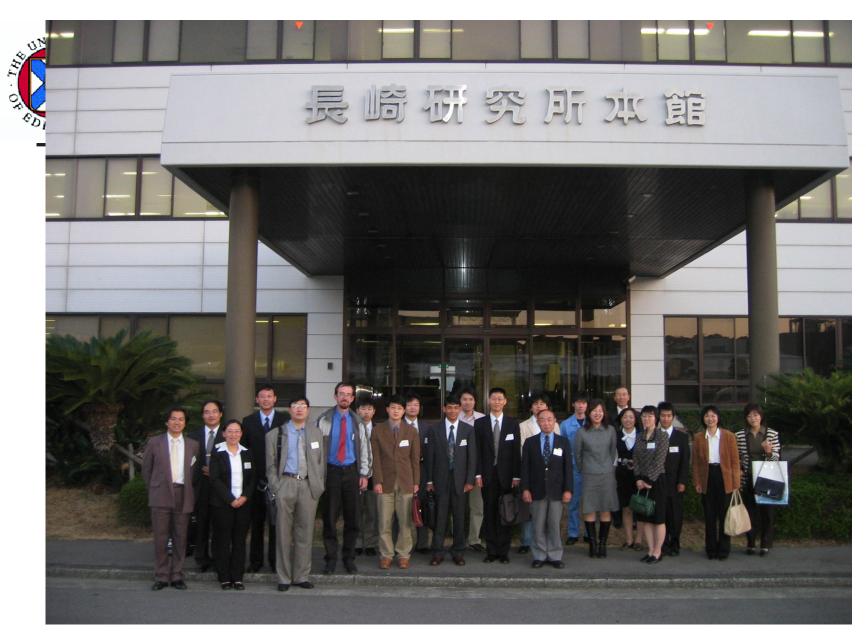


Research Group in Japan



JSPS: A Research Platform

- In Japan there was a very good research environment, such as very excellent technical equipments. So a good research platform can be set up.
- On this research platform, I conducted many researches of interests.
- There are also many opportunities to take advantage of in Japan, such as training courses, seminars, workshops, international and domestic conferences, and professional bodies, e.g. SICE.
- Many contacts with industry such as Mitsubishi Heavy, and other academic partners.



Research activity in Japan



Conferences



Conferences





Abroad Conference



JSPS: A Window

- Through this window, I could watch, feel, and touch:
- Japanese life
- Language
- Culture
- Traditions, etc.





Life in Japan



JSPS: A Bridge

- Through this bridge, I established working relations and contacts with researchers and colleagues in Japan.
- I also made many new Japanese friends
- And knew more about Japanese people and what they are thinking.



With my Japanese Tutor and her Children



In summary

- For me, it was my right choice to choose Japan to pursue my research first and develop my career.
- JSPS provided me this opportunity. So I would like to take this chance to express my thanks to it.
- Even now I often very miss my research, life, and friends in Japan.



Advice to potential JSPS Fellows

The JSPS will be absolutely one of your best choice if you want to develop your career and have a fully different culture and environment after your graduation, though there will be many challenges.