

Final Report

On Third Japan-China Joint Workshop on Control – Theory and Applications of Complex Systems

The first China-Japan Joint Workshop on Control–Advanced Robust Control and Adaptive Control: Theory and Applications was held in Beijing, China on September 22-26, 2004, and the second China-Japan Joint Workshop on Control–Control of Non-smooth, Switched, and Hybrid Systems was held in Harbin, China, on August 6, 2006, affiliated to the 25th Chinese Control Conference. After two successful workshops, the third Japan-China Joint Workshop on Control was held in Fukuoka, Japan, on August 18, 2009, which is organized as a pre-conference workshop of the ICCAS-SICE 2009.

The organizing work of this third Japan-China joint workshop was started from 27th Chinese Control Conference, when Prof. Hidenori Kimura was invited to deliver a plenary speech and Prof. Shinji Hara and Dr. Akira Ohata were invited as VIP from SICE. During the Conference, a meeting was held between TCCT and SICE for possible cooperation between Japan and China control communities. It was decided that the China-Japan (Japan-China) joint workshop on control will be held regularly. Then in 2008, when Prof. Daizhan Cheng (Chair, TCCT) visited Kyoto University, he discussed with Prof. Yoshito Ohta (Head, SICE Control Division) and Prof. Tielong Shen, the issue of Third Japan-China joint workshop and two Japan-China joint sessions in ICCAS-SICE 2009 have been decided in principle.

The joint workshop consists of four keynote speeches and 12 lectures. The four keynote speeches are

- Shinji Hara (The University of Tokyo, Japan):
A Unified Approach to Consensus and Cooperation in Multi-Agent Dynamical Systems: Systems with Generalized Frequency Variables;
- Daizhan Cheng (Chinese Academy of Science, China): Decoupling of Boolean networks;
- Lei Guo (Chinese Academy of Science, China):
Adaptation in Nonequilibrium Dynamic Games;
- Hidenori Kimura (RIKEN, Japan):
Brain Science and Control Theory.

More than 60 system and control experts participated the joint workshop. From China side, TCCT Vice-Chairs Jie Huang, Yingmin Jia, Qianchuan Zhao, Secretary General Yi Huang, Members Shuan Cong, Shengwei Mei and his student Shengyu Wu attended the joint workshop and presented their papers.

On the evening, a banquet was held and warm and friendly conversation and discussions were going on everywhere.

On August 19, two Japan-China joint sessions were held in ICCAS-SICE. They are

- SICE-CCC Joint Session on Complex Systems;
- SICE-CCC Joint Session on Advanced Control Design.

At the VIP dinner on the evening, August 19 some leading experts from Japan, South Korea, and China got together to discuss possible further collaborations among three major Asian countries. Prof. Kimura expressed his sincere welcome to the guests from China and Korea. Prof. Hara, President of the SICE, highly evaluated the Japan-China joint workshop and the coordination between Japan and China. On behalf of China delegation, Prof. Lei Guo delivered a warm speech to thank our Japanese hosts and gave a best wish to the further collaborations and academic exchanges between Japan and China.

During the Conference time, we even enthusiastically discussed the candidate venues for the 4th China-Japan joint workshop.

In addition to busy academic activities, we spent some time for sightseeing. Some of us had a Fukuoka City tour and/or visited Ashu Mountain (one of the world largest volcanos). We thank Prof. Tielong Shen (Sophia Univ.), Prof. Kangzhi Liu (Chiba Univ.) and Prof. Chunzhi Jin(Fukui Univ.) for organizing, guiding, and driving the tours for us.

In one work, it is a successful, colorful and memorable workshop.

Finally, we will publish a Book of some selected papers from the joint workshop by Tsinghua University Press. Tentatively, we propose Lei Guo as the Editor-in-Chief and Jie Huang, Tielong Shen and Kangzhi Liu as the Deputy Editor-in-Chief. We may have room for a small amount of invited papers from TCCT members, who were not attend the workshop. If you are interested in it please contact Prof. Tielong Shen for details:

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Taking this opportunity, we would like to express our sincere thanks to our Japan hosts. Particularly we are in debt to Prof. Tielong Shen for his amazingly hardwork and his generous financial support.

TCCT Secretariat
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