

December 2018 Activity Report

From: Hiroshi Ito, Technical Committee Chair (hiroshi@ces.kyutech.ac.jp)

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Summary

A meeting of the Technical Committee on Nonlinear Systems and Control was held on June 28, 2018, during the 2018 ACC. Eight people attended. We will have a meeting on December 19, 2018, during CDC 2018, in which this TC member is more active. About 30 members will participate in the TC meeting. In the meeting during the ACC, the mission of this TC was reviewed. Update of TC members and activities during the half-year period was reported. Cooperation between this committee and IFAC Technical Committee of Non-Linear Control Systems, and the process of nominating CEB members from this TC were reported and discussed. Ideas for updating the TC Web site were exchanged. TC members were asked to submit updates of their information including research keywords. Ideas of posting useful information on the website for non-experts and normal people as well as TC members were exchanged. The members were encouraged to continuously pursue possibilities to organize invited sessions, special issues and workshops in IEEE conferences and IEEE co-sponsored conferences. The CSM column published in the June issue was reported. Ideas to encourage the submission of a position paper representing our area to the CSM from this TC are exchanged.

Membership

The TC has currently 53 members in total. Five strong members joined the TC in June, this year. In the TC meeting at CDC 2018, we are planning to welcome several new members to strengthen the activities of this TC.

Awards and Recognition

- **Z.P. Jiang** received the Best Paper Award on Control in the 2018 IEEE International Conference on Real-Time Computing and Robotics.
- **Yan Wan** won the Best Paper Award in the 14th IEEE International Conference on Control and Automation 2018.
- **Lu Liu** was awarded the Best Paper Award of the 13th World Congress on Intelligent Control and Automation, July 2018.
- **Students of the TC members** received recognitions such as the Outstanding Youth Paper Award of the 30th Chinese Control and Decision Conference
- **Shimemura Young** Author Prize of the 11th Asian Control Conference, the Best Paper Award for Student in 22nd International Conference on System Theory, Control and Computing co-sponsored by IEEE.

Activities

A member gave plenary talks in Symposium on Industrial Systems and Control and Congresso Nacional de Control Automatico.

The plenary lectures in the 22nd International Conference on System Theory, Control and Computing, the 14th IEEE International Conference on Control and Automation 2018 were also given by these TC members.

Two plenary lectures were given by two TC members in the 2nd IFAC Conference on Modelling, Identification and Control of Nonlinear Systems 2018.

Other examples of plenary and invited lectures given by members of this TC are the Workshop on Stability and Control of Infinite-Dimensional Systems, the 2018 TCCT Workshop on Cooperative Control, 2018 IEEE International Conference on Real-time Computing and Robotics and Multi-Agent Systems, and SICE ISCS 2018 cosponsored by IEEE.

Conference and Workshops

A member served as the Program Chair of 2018 American Control Conference. He also organized the 16th International Symposium on Magnetic Bearings as the General Chair.

Another member organized the 8th Meeting on Systems and Control Theory.

A member of this TC served as a Co-General Chair of the 23rd International Symposium of Mathematical Theory of Networks and Systems.

Other TC members served as chairs and members of committees and workshop organizers for IEEE meetings and other international workshops and conferences such as workshops in the IEEE Vehicular Technology Conference and the International Conference on Unmanned Aircraft Systems.

A workshop in the CDC 2018 was organized by a TC member; another member gave one of the lectures in a workshop in the 2018 ACC.

Invited Sessions

Many members organized invited sessions in IEEE sponsored or cosponsored meetings. Two sessions in the 2018 ACC, and four sessions in the CDC 2018 were organized by members of this TC. There can be other invited sessions that were not reported to the TC chair. Many invited sessions were also organized in other IEEE sponsored or cosponsored events. Some examples are 2018 Chinese Control and Decision Conference, the 2019 European Control Conference and SICE Annual Conference 2018.

Journal Special Issues

We have not yet reached any concrete plan of proposing a journal special issue in the near future.

Material Added to TC Webpage

We have not yet reached any concrete plan of proposing a journal special issue in the near future.

Wikipedia

We are still looking for volunteers in the TC for checking and editing pages of related topics in Wikipedia.

Other Activities

None