

June 2016 Activity Report

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

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Summary

The Technical Committee on Nonlinear Systems and Control aims to advance the development of nonlinear systems and control theory and promote its practical applications. A TC meeting was held at CDC 2016, and ideas for promoting nonlinear systems and control both among our research community and our community at large. The committee meeting was held jointly in series with the IFAC Technical Committee of Non-Linear Control Systems and strengthened an effective relationship between the two committees. Members of this TC continued to be active in their activities that contribute to the mission of this IEE CSS TC. Those activities during the last six months after the previous report are summarized below.

Membership

The TC welcomed a new member. In total, the TC currently has 35 members. Zongli Lin stepped down as Chair, and Hiroshi Ito was appointed as Chair from January 2016.

Awards and Recognition

- Andrew Teel received the 2016 IFAC Technical Committee on Nonlinear Control Systems Achievement Award.
- Luca Zaccarian was nominated as a Fellow of IEEE.
- Norobu Sakamoto received the H. Kimura award from SICE.

Activities

Invited Sessions

Members of this TC organized invited sessions in IEEE CSS meetings and major meetings in the area of control such as Lyapunov Tools for ISS and Stabilization at IEEE CDC 2015, Stochastic Hybrid Systems at IEEE CDC 2015, Analysis and Control of Monotone Systems at IEEE CDC 2015, and Distributed Control of Complex Multi-Agent Systems, IEEE CDC 2015 at Neuronal Behaviors: A Control Perspective, IEEE CDC 2015.

TC members also proposed invited sessions such as Input to State Stability and its Variants for IEEE CDC 2016, Nonlinear Time Delay Systems: Theory and Applications for IEEE CDC 2016 and invited sessions such as IEEE ICCA16, IEEE/ASME AIM 2016 and CCC 2016.

Conference and Workshops

- A member of this TC organized a workshop entitled Nonlinear Optimal Control: Stable Manifold Approach at IEEE CDC 2015, and another member will organize a workshop at CCC 2016.
- Some members organized international workshops in their areas such as Fukuoka Workshop on Nonlinear Control Theory 2015.

Material Added to TC Webpage

- The TC webpages were updated with new information of events and useful links.
- Information about research interests
- Introducing individual TC members was also added.

Other Activities

A column for the Control Systems Magazine has been written for describing the aims and the activities of this TC.