

December 2016 Activity Report

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Details of Meetings

A meeting of the Technical Committee on Nonlinear Systems and Control was held on July 8, 2016, in 2016 ACC. Nine people attended. Activities over six months and the update of TC members were reported briefly. The column of the TC published in CSM was also reported. The status of updating the TC Web site was reviewed in view of the number of requests from TC members who asked the chair to update their information such as keywords and changes of affiliations. Ideas of posting useful information on the web site for TC members and non-experts were exchanged. The members were encouraged to continuously pursue possibilities to organize invited sessions, special issues and workshops in major IEEE conferences, IFAC and other own local occasions. A member was nominated as a CEB associate editor, and it was indicated that the TC will try to nominate one again in the future if CEB recruits its members. The IEEE initiative of IoT discussed in the preceding TAB meeting was reported. Ideas of possible actions for the Wikipedia project were discussed.

Membership

The TC has currently 39 members in total. The TC welcomed four new members in this period. Hiroshi Ito continues to serve as Chair for 2017.

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

- Murat Arcak gave a plenary lecture at the 10th IFAC Symposium on Nonlinear Control Systems.
- Jie Huang gave a keynote lecture at 2016 Symposium on Guidance and Control of Uncertain Multi-Agent Systems.
- Lu Liu gave a keynote lecture at TCCT Workshop on Cooperative Control and Multi-Agent Systems.
- Rodolphe Sepulchre gave a Plenary talk at Congreso Nacional de Control Automatico 2016.
- Rodolphe Sepulchre gave a talk in 2016 ACC Workshop.

Conference and Workshops

- A member acted as the editor and a co-chair for hosting the 10th IFAC Symposium on Nonlinear Control Systems.
- Another member is acting as a program co-chair for hosting MTNS 2018.
- Other TC members are chairs and members of program committees of major conferences such as the 20th IFAC World Congress, European Control Conference 2016 and the 10th IFAC Symposium on Nonlinear Control Systems.

Invited Sessions

- Members of this TC organized invited sessions in IEEE CSS meetings and major meetings in the area of control such as Input to State Stability and its Variants, and Control of Monotone Systems at IEEE CDC 2016, and Wind Utilization and Real-Time Nonlinear Guidance Strategies in Presence of Wind at IEEE Aerospace Conference 2016.
- A member proposed an open invited track titled Advances in Nonlinear Observers at the 20th IFAC World Congress.
- Some examples of other invited sessions organized by members of this TC in smaller international meetings such as the 2016 IEEE/ASME International Conference on Advanced Intelligent Mechatronics and SICE Annual Conference 2016.

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

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

Wikipedia

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

Other Activities

We nominated Claudia Califano as an Associate Editor on the CEB.