

IEEE Control Systems Society
Technical Committee on Healthcare and Medical Systems

Minutes of the TC meeting on December 12 at 16:00, 2016 at the CDC 2016

December 21, 2016

Attendees:

Alexander Medvedev	Uppsala Universitet, Sweden
Laura Giarre'	Universita' di Palermo, Italy
Yannis Paschalidis	Boston University
Carlo Novara	Politecnico di Torino, Italy
Filippo Cacace	Universita' Campus Bio-Medico di Roma, Italy
Pasquale Palumbo	National Research Council, Italy

The meeting started at 4:00 pm with participants introducing themselves.

The meeting chair Pasquale Palumbo, on behalf of Caterina Scoglio who was not in Las Vegas, presented the activities of the last six months and some options for future activities.

Past activities

- The TC has successfully organized two invited sessions at the ACC 2016 in Boston and one special session.
- The proposal of one invited session for the CDC 2016 was declined, due to the fact that some of the papers submitted were not accepted. An invited session proposal was submitted to ACC 2017.

Future activities

- Alexander Medvedev, Daniel Rivera, and Caterina Scoglio, members of this TC, are part of the proposers of a Special Issue for the *IEEE Transactions on Control Systems Technology*. The proposed title of the special issue is “Control and data-driven modeling in biomedicine”, and it is sponsored by the IEEE CSS Technical Committees on Healthcare and Medical Systems, System Biology, System Identification and Adaptive Control.
- The TC has been asked to organize an invited session at CCTA 2017.

In the subsequent discussion, Yannis Paschalidis announced that the *IEEE Transaction on Network Systems* will publish a special issues on “Approaches to Control of Biological and Biologically inspired networks” that could be of potential interest to the members of the TC.

The participants to the meeting expressed their commitment to organizing the invited sessions at CDC 2017 and CCTA 2017. The experience of the submissions to CDC 2016 confirmed that the papers with a stronger experimental/applicative focus were not accepted, thus there was a general agreement to focus on methodological papers for the CDC and more application-oriented ones for CCTA.

Alexander Medvedev suggested that CCTA 2017 is more appropriate for a session on applications of control to health treatments. He suggested possible as potential topics Optimization of therapies, Cancer

treatment, and Infection treatment. For the CDC 2017, Alexander suggested to choose a topic with a broader scope that could attract more people. Specifically, he suggested an invited session in the area of Neurosciences, as Control principles of brain and memory, neurons control.

The participants to the meeting agreed on the need to reach a broader audience in the future initiatives of the TC.

Alexander Medvedev raised the topic of a stricter cooperation with the TC on Systems Biology, since there are some overlapping topics and participants. It has been noticed that there is the risk that our TC organizes session of potential interest to the members of the TC on Systems Biology and vice versa. There was a general agreement on the fact that, once the topics of the invited sessions have been chosen it would be a good idea to send a notice to the TC on Systems Biology.

Finally, it was recommended to start as soon as possible a round of mail to decide on the actual session titles for the future conferences.

We plan to hold the next TC meeting during ACC 2017 in Seattle, USA.