

IEEE-CSS Technical Committee on Medical and Health Care Systems

(est. January 1st, 2013)

2014 IEEE-CDC
JW Marriott Hotel, Los Angeles
1:45 - 2:45 pm, December 15, 2014

Meeting Agenda

- Introductions
- Report on TC membership
- Activities to date and current activities
- Future activities and opportunities
- Brainstorming/discussion of new activities
- Items from the floor

Introductions

- Please share your name and affiliation, and a brief statement of your research and/or interests in control in bioengineering, medicine, or healthcare.

Incoming TC-Chair

(effective Jan. 1, 2015)



- Caterina Scoglio, Professor, Dept. of Electrical and Computer Engineering, Kansas State Univ.

TC History

- After some years as an “interest group,” the TC for Medical and Health Care Systems became official on January 1st, 2013.
- Recruitment of charter members underway since 2013.
- Inaugural meeting of the TC at the 2013 ACC in Washington, DC.

Areas of interest

(not exhaustive)

- All topics biomedical in nature,
- Transcending to include issues relating to:
 - Health care delivery
 - Epidemiology
 - eHealth / mHealth - mobile technologies
 - Behavioral health

Benefits of TC status

- Helps to insure that CSS meetings (CDCs, ACCs, and MSCs) have adequate content in this subject area.
- Provides opportunities for organizing
 - invited session at meetings,
 - special sections of CSS journals (IEEE-TAC, TCST, CSM, and TCNS)
- Opportunity to create high visibility events (workshops, etc.)
- Collaboration with other CSS TCs and IFAC counterpart TCs.
- Assist with member promotion and development.

TC Membership Report

- IEEE-CSS bylaws state that membership in a TC is available to any member in good standing, upon request.
- We continue recruiting charter members for the TC, and have received over 40 requests for membership to date.
- A membership roster is part of the TC website

<http://medical-and-health-care-systems.ieeecss.org>

2014 ACC

- **ThB12** (Room Broadway IV): Modeling, analysis, and treatment of HIV Infection (A. Armaou, R. Zurakowski, organizers)
- Organized (with the TC for Manufacturing Automation and Robotic Control) two invited sessions on the topic of applications of control theory in medical rehabilitation (R. Gregg, D.E. Rivera, and F. Zhang);
 - **FrA12**: Assistive Devices
 - **FrB12**: Therapeutics

2014 CDC

- Co-organized a pre-conference workshop on Recent Advances in Modeling and Control for Diabetes Treatment with the TC for System Identification and Adaptive Control (Diego Regruto, chair).

Future Conference Planning:

- 2015 IEEE-CDC (Osaka)
- 2016 ACC (Boston)
- Other conferences

Report from TAB meeting

- Given by Caterina Scoglio

General Discussion / Brainstorming Topics

- Any ideas for special issues of journals / magazines?
- Can we think about working groups and other ways for better organizing the TC?
- What about pre-conference or stand-alone workshops?

Please note:

- Feel free to let others know about this group; have them send email to daniel.rivera@asu.edu and/or caterina@ksu.edu.
- Our next anticipated meeting will be at the 2015 ACC in Chicago.

The End



Thank you for your participation!