

IEEE CSS TC-SIAC meeting
CDC 2015, Osaka, Japan

Diego Regruto

Wednesday, December 16th, 2015
Osaka Convention Center, Osaka, Japan

- 1 Agenda
- 2 Introductions
- 3 Reports on TC-SIAC membership and general items
- 4 Announcement of new TC-SIAC Chair
- 5 TC-SIAC activities over the last three years
- 6 Discussion and brainstorming of new initiatives
- 7 Wikipedia Project
- 8 TC-SIAC contribution to CEB and Standards Committee

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Agenda

- Introductions
- Report on TC membership
- Announcement of new TC-SIAC Chair
- TC-SIAC activities over the last three years
- Discussion and brainstorming of new initiatives
- Items from the floor

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Introductions

Please, introduce yourself (name, affiliation, research interests in system ID and/or adaptive control ...)

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Reports on TC-SIAC membership

- IEEE-CSS bylaws state that membership in a TC is available to any member in good standing, upon request.
- Currently, the committee consists of 104 members.
- Last TC meeting at the 2015 ACC in Chicago had 15 members in attendance.
- TC will meet again during the 2015 ACC in Boston (USA)
- Minutes, presentations, and other materials from prior meetings are accessible soon through the new TC website, located at:
<http://system-identification.ieeecss.org/tc-system-identification/home>

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Announcement of the new TC-SIAC Chair

- It is my pleasure to announce that the CSS Board of Govenorns has recently approved the appointment of **Prof. Guillaume Mercere** as the new TC-SIAC chair (starting January 1st, 2016).
- Guillaume has been an active member of the TC-SIAC committee for a number of years.
- Guillaume is Associate Professor at Université de Poitiers.
- Contact and CV information can be found here:
<http://www.lias-lab.fr/perso/guillaumemercere/>

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TC-SIAC activities over the last three years

I would like to thank all the active TC-SIAC members for their effort in providing significant contribution to the TC activities over the last three years. This is a summary of the main achievements:

- 4 Special issues published in leading Journals in the control field on different system identification/adaptive control related topics including a special issue of the IEEE Transactions on Automatic Control.
- 6 Workshops (1 stand-alone and 5 as pre-conference workshops) on some theoretical and/or applied hot topics related to system identification/adaptive control
- About 20 Invited sessions in leading international conferences in the control/identification field (CDC, ACC, SYSID, IFAC WC, ...)

TC-SIAC activities over the last three years

- 2 Tutorial sessions on the emerging topics of Big Data and Machine Learning in System Identification (one at th last CDC in LA and one at the last SYSID in Beijing).
- 1 System ID Software Demonstration session at the last SYSID in Beijing.
- A number of the initiative mentioned above have been organized by establishing fruitful collaborations with other CSS Technical Committees (TC on CACSD and the TC on MHCS)

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Discussion and brainstorming of new initiatives

- New invited session planning

- Upcoming submission deadlines:
 - CDC 2016 in Las Vegas (deadline March 15th, 2016)
 - ACC 2017 in Seattle (deadline September 19th, 2016)
 - ...

Discussion and brainstorming of new initiatives

- LPV benchmark

- The TC-SIAC has recently established a Working group (lead by Roland Toth and including myself and Guillaume Mercere) aimed at preparing a proposal for an LPV identification benchmark problem with a session dedicated to the comparison of the different approaches.
- The LPV identification benchmark was initially intended for proposing a session at the IFAC SYSID 2015.
- We have already done (mainly Roland and Guillaume) some works on the benchmark, but we are still on the way (brief report by Roland).
- Submission of LPV benchmark session has been therefore postponed to one of the next conferences (CDC 2016?)

Discussion and brainstorming of new initiatives

- New special issues/sections proposals

- TC-SIAC members were quite active in proposing special issues on subjects related to system identification over the years.
- TC-SIAC members are invited to propose ideas for new special issues/sections on the following journals:
 - IEEE CSM
 - IEEE Transactions on Control of Network Systems
 - Newly born CSS Transactions
 - Editor-in-chief: Ioannis Paschalidis
 - Deputy Editor-in-chief: Magnus Egerstedt
 - Website: <http://sites.bu.edu/tcns/>
 - Automatica
 - Other high quality journals.....

Discussion and brainstorming of new initiatives

- Workshops proposal

- TC-SIAC member Mihaly Petreczky is going to organize a pre-conference workshop for the next CDC 2016 on the topic of "system identification and realization theory"
- people interested in contributing the Workshop is invited to contact Mihaly (mihaly.petreczky@ec-lille.fr) and/or the new TC-SIAC chair (Guillaume Mercere).

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Wikipedia project

- CSS Wikipedia project

- Panos Antsklis reported (during the TAB meeting at the CDC 2012) on the efforts of a IEEE CSS committee (composed of Panos and Magnus Egersted) to improve the Wikipedia pages dedicated to control science and technology.
- After a lively discussion followed, the task of taking care/improving the Wikipedia pages was assigned to the TCs.
- Recent developments: see slides from last TAB meeting at CDC 2014.

Wikipedia project

- CSS Wikipedia project

- In particular, our TC was invited to take care of the most important pages related to system identification and adaptive control.
- The TC-SIAC established a Working group (Girish Chowdhary and Tansel Yucelen). The task assigned to the Working group is to examine the current Wikipedia pages related to the topics in the scope of TC-SIAC and to propose possible improvements. We are waiting for formal inputs from the CSS Wikipedia Editor (Jacob Stroustrup).

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The CSS Vice-President for Technical Activities (Kirsten Morris) asked TC chairs to suggest

- a couple of possible candidates for the position of Associate Editor of the CSS Conference Editorial Board (CEB)
- a couple of possible candidates for entering the CSS Standards Committee (newly appointed chair is Stefano di Cairano, (dicairano@ieee.org))