Report of the IEEE CSS TC on CACSD

From: Fabrizio Dabbene , Chair

Date: 26 may 2013

Here is a summary of the activities of the TC during the second semester of 2012.

\*\*\* Meeting \*\*\*

The last TC-CACSD meeting was held Monday, December 10, 2012 during the 2012 IEEE Conference on Decision and Control held in Maui.

\*\*\* TC-CACSD webpage

The TC-CACSD has been one of the first TCs to move his web contents to this new platform hosted by the IEEE CSS, at http://computational-aspects.ieeecss.org/. The new webpage is now fully operative, and contains an updated Software Section, an Action Groups Section, and News.

\*\*\* CACSD Symposia \*\*\*

- The next CACSD Symposium will be held at the 2013 Multiconference on Systems and Control (MSC2013) in Hyderabad, August 28 - 30, 2013, see http://www.msc2013.org/. The program chair of the symposium is Prof. Constantino Lagoa, PennState Unversity. The number of papers submitted has been: 26 regular papers (of which 14 accepted, 11 rejected 11 and one withrawn), and 7 invited papers (6 accepted).

- As approved by Board of Governors, from now on the CACSD Symposia will be held on a three year basis. The 2016 CACSD Symposium will be hosted by the MSC 2016, to be held in Buenos Aires, Argentina.

- Regarding future CACSD Symposia, the Multiconference on Systems and Control is undergoing a large restructuring. The last BoG approved the following motion: "To make the following changes, beginning in 2017:

\* Discontinue the IEEE Multi-Conference in Systems and Control,

\* Continue to run the â€œConference on Control Applicationsâ€ (CCA) as an

annual IEEE CSS sponsored conference and change its name to â€œIEEE

Conference on Control Technology and Applicationsâ€ (CCTA).

As a consequence of the motion, the financial sponsorship of the other two conferences (ISIC and CACSD Symposia) will stop starting 2015.

by this decision.

\*\*\* Publication activities \*\*\*

- The chair of the TC-CACSD (F. Dabbene) and the former chair of the TC on System Identification and Adaptive Control (D. Rivera), together with D. Regruto (new chair of TC-SIAD) of Politecnico di Torino, are the Guest Editors of a Special Issue on "Relaxation methods in identification and estimation problems" for the IEEE Transactions on Automatic Control. The Special Issue collected 24 paper submissions of which 18 Full papers and 6 Technical Notes.

Submitted papers cover different aspects of system identification/estimation theory and applications (input design, worst-case ID, frequency domain ID, subspace ID, sparsity, networks, sensor placements, LPV, stability in nonlinear sys-ID, estimation in vision systems, many moreâ€¦). Although (as expected) most of the contribution comes from the System ID community, we collected a good number of contribution from people working on optimization/computational aspects of sys-ID. The first round of review has been completed in April 2013.