TC Hybrid Systems Meeting

Dr. Mircea Lazar

Eindhoven University of Technology

m.lazar@tue.nl

CDC 2014

Meeting Agenda

Point 1: Mission of CSS Technical Committees

Point 2: TC Funding and events

Point 3: TC Website, members, publicity

Point 4: TC Wiki-page, joint effort with IFAC

Point 1: TC Mission

TC mission statement

Build a community with broad membership and involvement, organize regular meetings, and collect/disseminate relevant information.

In particular, the following tasks are expected:

- Develop invited sessions and workshops for the CDC, ACC, and MSC (-> CCTA).
- Edit special issues for our CSS Transactions and Magazine.
- Prepare reports for BoG meetings at ACC and CDC.
- Attend biannual TAB meetings or send substitute.
- TC chairs are organizing their membership! (Every CSS member has right to be member of any TC; Pay attention to diversity incl. internationality, gender, …;TCs can form substructures!)
- Write information columns for CSM. Suggest topics for CSM Techn. Activities Column.
- Maintain the TC website.
- Maintain (and create) Wikipedia pages related to TC topic.
- Pursue interactions among TCs and with IFAC and other societies.
- Identify worthy individuals for awards and other recognitions.
- Organize outreach activities.

Point 1: TC Mission

Past/current activities:

- Organizing PhD Summer Schools (Alberto Bemporad)

- Column for IEEE Control Systems Magazine

- Invited Sessions (IEEE Conferences)

- Supporting HSCC to attain IEEE CSS Technical Co-sponsorship

Point 1: TC Mission

Possible future activities:

- TC Website and TC Wiki page (required by default)

- Develop a Hybrid Systems TC event

- Promote successful tools/applications stories, TC Video for the IEEE CSS Video Contest

- Collaboration with IFAC TC on Discrete Event and Hybrid Systems : Wiki page, joint meetings

Point 2: Funding

- All TCs are encouraged to organize events every year, for which there is still a budget.

- **Total TAB budget at maximum of $20'000 !**
  - Maximum one "regular" meeting will be supported per TC and year with up to $2000 up to maximum VP-TA budget.
  - Special concern: TC lunches during ACC and CDC. Please be considerate regarding the cost.
  - All TCs are encouraged to organize high visibility events. A maximum of one such event will be supported per TC and year with up to $5000.
  - Travel support for TC chairs for attending meetings (maximum of 4 per year for whole TAB).

IEEE CSS Outreach Task Force (Daniel Rivera) 50k$

Point 2: Funding

TC Event Ideas … (open for discussion):

- Oriented on giving tutorials and/or working on a problem together

- Topic examples: joint spectral radius, scalable abstraction methods, computation of Lyapunov functions, LTL control, safety verification, control of petri nets + applications

- Outcome of the event can be published in a special outreach article in IEEE Control Systems Magazine

Point 3: TC Website

Goals of the TC websites Project

- set up a common CSS format for the TC websites

- host all websites on the CSS server

- have all TC chairs advertising their TC scope, members list, activities through the TC website

CSS TC Websites project

CSS TAB Meeting @CDC'14 – December 15, 2014

Maria Prandini

prandini@elet.polimi.it

Point 3: TC Website

Hybrid Systems TC Website Ideas … (open for discussion):

- TC Co-chair: Maria Prandini

- Add member list

- Revise content: bring conference list up-to date, add relevant workshops, successful stories, TC video …

Point 4: Hybrid Wiki

ControlWiki:
A Joint IFAC/IEEE CSS Wikipedia
Editorial Project

Jakob Stoustrup

Pacific Northwest National Laboratory

- This is a joint IFAC/CSS initiative for which both societies are equal partners.
- IFAC enthusiastically supports this activity !!
- IFAC includes the task to act as Wikipedia co-editor in its job description for the IFAC TB member who is Social Media Liaison Officer.

Point 4: Hybrid Wiki

- **Dec 2014**: IEEE CSS TC Chairs and newly appointed IFAC TC Chairs are presented by IEEE/IFAC Wikipedia Editor (WE) with initial draft for separate/joint associate editorships (AE) based on 20 IEEE CSS TCs and 39 IFAC TCs. AE iteration until consensus.

- **Jan 2015**: WE presents initial proposal for unified page structure. AE iteration until consensus.

- **Feb 2015**: Each AE identifies a list of (minimally) desired Wikipedia pages (inspired by keyword lists).

- **Feb 2014**: Consolidation of page list.

- **May 2015**: Deadline for launch of minimal page set. Appointment of WikiProject Review Committee (WRC).

- **Jun 2015**: WRC presents proposal for revision. AE iteration until Consensus.

- **Oct 2015**: Deadline for implementation of revision. Launch of first 'official' version of Control WikiProject.

Point 4: Hybrid Wiki

- Ongoing efforts: author unknown, content related to the work of Ricardo Sanfelice

http://en.wikipedia.org/wiki/Hybrid_system

- Assistance from TC and IFAC TC

- TC Co-chair

Outlook to 2015

- No meeting at ACC 2015

- Meeting at CDC 2015; Current Chair will end his term

- Wiki project + Website update

- Propose a TC Event

Thank you for the support!