The technical committee on system identification and adaptive control is pleased to report on the following activities during the past six months (December 2007 – May 2008).

1. The committee met on December 12, 2007 during the CDC meeting in New Orleans, with 14 members in attendance. Our next meeting is scheduled on June 11 during the 2008 ACC in Seattle.

2. We have been making significant efforts to increase membership. The committee roster has expanded from 34 members at the end of 2007 to 48 members at the current time. Particular emphasis is being placed on seeking members with industrial or national lab affiliations, and with expertise in adaptive control.

3. The committee spearheaded efforts to organize two invited sessions for the 2008 CDC in Cancún, which are currently under review. The first session is “Advances in LPV System Identification: Methods and Applications” with organizers C. Novara, P. Lopes dos Santos, J. Ramos, M. Verhaegen, and D. Rivera. The second session is entitled “System Identification in Systems Biology and Medicine” and is jointly sponsored with the Systems Biology TC; the organizers are D. Rivera and M. Khammash.

4. The committee is actively promoting efforts to develop special sections on system identification and adaptive control topics in IEEE CSS publications. The October 2007 issue of Control Systems Magazine featured a special section on applications of system identification. While not organized by the TC, TC members were authors in a number of the features. Efforts are currently underway to develop proposals for special sections of the Transactions on Control Systems Technology. One is devoted to LPV system identification (spearheaded by M. Lovera and C. Novara) while the other focuses on modeling and identification in electronics manufacturing (spearheaded by K. Poolla).

5. We have received funding from the VP of Technical Activities to develop a new TC website. Among the plans that have been discussed for the website include creating a depository of interesting benchmark problems (involving both data and algorithms) that can be used to better communicate identification advances to the community and enhance educational efforts. Plans for developing the website and benchmark problems will be among the topics discussed during the upcoming TC meeting in Seattle.
6. Looking to the future, CSS is a co-sponsor of the IFAC SYSID 2009 meeting (to be held in St. Malo, France in July 2009); we will discuss during the ACC Seattle meeting specific ways in which the TC will be involved. We will also begin preparations for invited sessions for the 2009 ACC in St. Louis and the 2009 MSC in St. Petersburg, Russia.