IEEE Technical Committee on Variable Structure and Sliding Mode Control

TC Chair: Sarah Spurgeon s.k.spurgeon@kent.ac.uk

Since the previous report submitted in October 2009, the Variable Structure and Sliding Mode Control community has accomplished:-

1. An Invited Session took place at the 48th IEEE CDC held in Shanghai, PR China entitled Advances in Higher Order Sliding Mode Observation and Output Control. This session was organised by Leonid Fridman,
2. The Committee held its annual TC meeting at the 48th IEEE CDC, Shanghai, PR China. The TCVSSMC Executive Committee currently has eighteen members and decided at the TC meeting in Shanghai to recruit new members to ensure all countries with significant variable structure and sliding mode communities have a voice on the committee. The TC also introduced a class of group membership where any group involved in the variable structure and sliding mode control area can become involved with the TC.
3. A new TC website has been designed to support and disseminate at all levels within the community. This website will be formally launched to the community at the 11th International Workshop on Variable Structure Systems in June 2010.

Forthcoming plans involve:

1. The 11th International Workshop on Variable Structure Systems (VSS 2010) will take place from 26th to 28th June 2010 in Mexico.
2. It has been decided that the twelfth international workshop on variable structure systems will be held in Mumbai from 20-23 January 2012. Professor Bijnan Bandyopadhyay has been elected the general Chair.
3. Jian-Xin Xu, Xinhuo Yu and Asif Sabanovic are organizing a special session entitled Variable Structure Control and Industrial Applications within the 36th Annual Conference of the IEEE Industrial Electronics Society, 7-10 November 2010, Glendale, USA.
4. A book is planned entitled “Sliding mode theory: present and future” representing a series of tutorials from the 11th International Workshop on Variable Structure Systems (VSS 2010).