

# IEEE Technical Committee on Variable Structure and Sliding Mode Control

Notes of the Executive  
Committee Meeting held on  
June 3rd, 2016 at VSS 2016, Nanjing, China

## Present

Bijnan Bandyopadhyay, Igor Boiko, Hide Brandtstaedter, Antonella Ferrara, Leonid Fridman, Katsuhisa Furuta, Arie Levant, Shihua Li, Zhihong Man, Tiago Oliveira Roux, Franck Plestan, Marcus Reichhartinger, Johan Reger, Sarah Spurgeon, Vadim Utkin, Elio Usai, Jean-Xin Xu, Xinghuo Yu

## AGENDA

1. Presentation of new members
2. Rules for EC members selection
3. VSS18 and summer school 2017
4. Information about Special Issues
5. Information about Pre CDC16 workshop
6. A note about TC activities published
7. Publication of post VSS16 book

The Chair welcomed members to the meeting and make the presentation(attached).

### I. Presentation of new members

The Chair reported the appointment of new EC members following e-mail discussion prior to the meeting. Tiago Oliveira Roux, Franck Plestan, Johan Reger, Elio Usai were formally welcomes as members of the Committee.

### II. Rules for EC members election

II.1. The Chair reported previous email discussion of EC members on the rules of EC membership

The actual rules of EC membership are

1. One representative for one country
2. Distinguished scientists
  - Editors of IEEE CSS and IFAC journals
  - 10 years experience in the field
  - 10 papers IEEE CSS journals
  - PhD graduated in the field

Professor Utkin proposed that such rules may preclude membership of people working in industry and proposals for new EC membership should be considered individually.

This proposal was accepted.

II.2. The Chair reported that there are some silent members in the EC and proposed that all of the EC members should confirm their willingness to continue their membership confirming also that they have paid a current IEEE CSS membership.

II.3. The Chair commented that some members of the EC are retired from their University and cannot frequently participate in meetings. He suggested that some may no longer pay an IEEE CSS membership and thus formally they cannot be a part of the EC or have TC membership. The EC needs their experience but they cannot be EC members without IEEE CSS membership.

The Chair proposed that all EC members who are retired have a new Emeritus Member status allowing them to participate in discussions but not vote.

Professor Furuta supported the proposal of the Chair and reported that he is ready to accept Emeritus status.

Dr. Hide Brandtstaedter gave the view that it is difficult to have people without a vote. Professor Spurgeon indicated that some retired people may be offended by the Chair's suggestion as they may still be formally retired from employment but active.

The proposal was not approved because there was not consensus within the EC.

### **III. VSS18 and summer school 2017**

The Chair reported that following e-mail discussion, the EC approved a proposal from TUGraz, Austria to host VSS 2018 in Graz Austria July 9<sup>th</sup>-11<sup>th</sup> .2018 with a Summer School in Early September 2017 in Retzhof, Steier, Austria.

### **IV. Information about Special Issues**

The chair provided an update regarding Special Issues

Special Issues published

Y. Shtessel, L. Fridman, F. Plestan. Adaptive Sliding Mode Control and Observation. International Journal of Control, DOI: 10.1080/00207179.2016.1194531

Special Issue announced

"Sliding Mode Control and Observation for Complex Industrial Systems" in IEEE Transactions on Industrial Electronics, organized by Prof. Ligang Wu, Prof. Sudip K. Mazumder, and Prof. Okyay Kaynak

### **V. Pre CDC2016 workshop**

The Chair announced a pre CDC2016 workshop entitled Continuous Higher-Order Sliding Modes Controllers to be organised by L.Fridman, J. Moreno

### **VI. The Chair presented a note publicizing TC activities**

**L. Fridman.** Technical Committee on Variable Structure and Sliding-Mode Control. IEEE control systems 36(3):18-20 · May 2016, DOI: 10.1109/MCS.2016.2535917

## **VII. Publication of post VSS16 book**

The Chair informed that the book published

Recent Trends in Sliding Mode Control, Institution of Engineering and Technology. L. Fridman, J.P. Barbot, F. Plestan (Eds). ISBN 978-1-78561-076-9.

Is published.

The Chair announced that a book summarizing the results of VSS16 will be published in the Springer Verlag series entitled Studies in Systems, Decision and Control.

He requested authors to pay particular attention when preparing chapters and observe the following chapter preparation rules

1. Do not submit chapters connected with one paper only.
2. Avoid copy- paste from other work.
3. Do not repeat previously published graphs.
4. Avoid the sentences like “chattering free sliding mode”
5. Present a letter reporting on the novelty, which describes the difference between the chapter and the papers summarized and certifying there is no plagiarism.

The Chair asked authors to pay special attention to simulation results:

1. Put correct simulations only.
2. Apply constant as well as perturbations with different frequencies.
3. Make precision tests.

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L. Fridman  
2 June  
2016