

## Meeting Minutes

### IFAC TC4.5 Annual Meeting 2023

Date/Time: Mar. 20, 2023, 14:00-15:30

Venue: on Zoom; from Oslo, Norway

#### Attendees (7):

Prof. Jianhua Zhang (TC Chair 2017-23 and host), Oslo Metropolitan University, Norway

Prof. Sören Hohmann (Nominee, TC Chair for 2023-26), Karlsruhe Institute of Technology, Germany

Prof. Max Mulder, TU Delft, Aerospace Engineering, The Netherlands

Dr. Sven Nomm, Tallinn University of Technology, Estonia

Prof. Figen Oezen, University-Istanbul, Turkey

Prof. Zengguang Hou, Institute of Automation, Chinese Academy of Sciences, China

Associate Prof. Zhong Yin, University of Shanghai for Science and Technology, China

#### The planned agenda:

- 1) Intro to TC submissions to IFAC WC2023 in Japan
- 2) TC: Current status and future plan
- 3) Free discussion: How to improve the visibility and vitality of TC?
- 4) AOB

#### The things discussed:

- 1) Everyone made a short self-introduction.
- 2) Prof. Jianhua Zhang briefed the number of papers submitted to and accepted by IFAC World Congress 2023 in Japan. All submissions to IFAC World Congress 2023 in the scope of TC4.5: 28 (24 accepted) [originally 42 submissions in total]
  - *Contributed discussion papers: 4 (4 accepted)*
  - *Contributed papers: 24 (20 accepted)*
- 3) Prof. Jianhua Zhang encouraged the TC4.5 active members to contribute more papers to our symposium series and world congress in order to enhance the visibility of our TC in IFAC community. We need to cooperate with other TCs with overlapped scope of interests. All the members (more than 90 in the current roster) were invited to contribute to the triennial HMS symposium, but the turnout for the virtual HMS2022 was unfortunately lower than the previous two in Tallinn and Kyoto. In the future, we need to take concrete actions to mobilize more participants in HMS2025 in Beijing.
- 4) Prof. Sören Hohmann suggested to enroll more researchers in control field to join the TC. We also need to establish a link to the control community to find out new directions in HMS field, although it might be challenging to implement.

- 5) Currently we have a small number of very proactive members who have made significant services to the HMS community. With regard to the HMS symposium 2025 in Beijing, Profs. Hou and Zhong will be the main organizers. With the support of the Chinese Association of Automation (Chinese NMO of IFAC), we have confidence that the scale of the event will be enlarged, since there are many researchers in China working on human-machine systems. There would be no issue with onsite attendance in China after the Covid-19 pandemic, but hybrid mode will be adopted to accommodate the needs of people who find it hard to participate in person for various reasons.
- 6) We discussed the competition of the activities between IFAC and IEEE. The human-machine system field is so wide-ranging and multidisciplinary that we may need to focus more on its control-relevant aspects. We could strengthen the link between our TC and other similar TCs (for example, TCs on robotics, mechatronics and societal impact of automation) by organizing joint scientific events in the future.
- 7) Dr. Sven Nomm proposed to engage more with the cyber-security area in CS field, which is not only concerned with computers, but also very important to enhancement of human performance in human-machine system.
- 8) We have booked a meeting room for the TC4.5 meeting (handover to the new Chair Team under Prof Sören Hohmann, KIT, Germany) during IFAC World Congress 2023 in Japan. We look forward to meeting many of the TC4.5 members in Japan in the coming July.