

## **IFAC TC 9.4 on Control Education**

### **Minutes of the meeting July 13, 2023**

The meeting is held in person at the IFAC World Congress in Yokohama at 1:30pm local time.

Attendees: Antonio Visioli (chair), José Luis Guzman (VC on education), Steffi Knorn (chair of IFAC Education Activities Committee), Cristina Maniu, Manuel Berenguel, Ramon Costa, Alberto Leva, Elena Zattoni, Fabrizio Padula, Anthony Rossiter, Emanuele Garone, Marco Nicotra, Gorazd Karer, Paolo Castaldi, José Luis Diez, Gerwald Lichtenberg, Takao Sato, Bozenna Pasik-Duncan, Mehmet Turan Söylemez.

Antonio Visioli welcomes the attendees and thanks them and the members of the TC for their activity during the last year. He also remembers to any member to register in the IFAC portal at <https://www.ifac-control.org/about/affiliate-registration>

- Steffi Knorn presents the new IFAC Education Activities Committee she will chair in the next triennium. This is not intended to replace IFAC TC9.4 but it is a very good opportunity to strengthen the role of education and for the TC members to create connections with other TCs and to give more visibility to their work. Antonio highlights this is indeed good news as this will facilitate the success of initiatives of our TC.
- Antonio presents, on behalf of Atanas Serbezov, the work done by the working group on open access resources on control education. The proposal is to utilize the resourcium.org platform to organize the resources as journeys. The American Automatic Control Council (a2c2.org) has agreed to host a portal for the links to the Resourcium journeys. The IFAC TC 9.4 web site may also provide a portal for the links. Anthony Rossiter thinks that IfAC should host the website directly. Steffi will verify if this is possible. In any case the idea is that, as it consists of links only, the website will be easily portable in case it is necessary.
- Antonio presents, on behalf of Atanas Serbezov, the Industry Committee Task Forces Relevant to Control Education.
- José Luis Guzman informs the TC members that, as a result of the “Teaching during the pandemic” working group, a paper has been submitted to the Journal of Science Education and Technology.
- Antonio presents the IFAC Workshop on Internet Based Control Education that will be held in Ghent (B) on September 18-20, 2024. It will be held in hybrid mode in order to facilitate the participation of people from developing countries. Antonio with the IPC chair Alberto Leva and the IPC co-chair Elena Zattoni strongly invites the TC members to disseminate the event and to participate to it.
- Antonio remembers that the IFAC Symposium on Advances in Control Education will be held in Budapest in 2025. Dates will be defined in a short time and the proposal will be finalized by Levente Kovacs before the end of the year.
- Antonio Visioli presents the conferences that are co-sponsored by TC9.4. All the members are invited to submit papers related to control education in the specific topic of the conference. In particular, a special session on PID control education will be organized at the next IFAC Conference on Advances in PID Control to be held in Almeria (Spain) on June 12-14, 2024.
- Anthony proposes to have a special session on control education at the next ECC24.

- Antonio presents a new initiative: periodic webinars related to different aspects of control education will be organized in cooperation with the IEEE Control Systems Society Technical Committee on Control Education. They will be held every two months starting from next September. The recorded videos will be uploaded into the IFAC Youtube channel.
- Antonio presents, on behalf of Damiano Varagnolo, the first ideas of a working group about the creation of a repository for exercises for teaching and assessment. The main idea is to create a mechanism like that of a journal in order to stimulate people to contribute and to guarantee the correctness and integrity of the repository. After a very fruitful discussion, it is decided to go on with the initiative and to ask for the support of the IFAC Education Activities Committee.

Antonio Visioli thanks everyone for the participation and the meeting is closed at 3pm.