

## IEEE Estonia Section

**Dmitri Vinnikov, Chair**

### Section Vitality

Elections: Last elections of the IEEE Estonia Section Board have been conducted in Nov-Dec 2020. Starting from January, 2021 the Section Board is represented by the following volunteers:

- Dmitri Vinnikov, Chair
- Vladimir Kuts, Vice-Chair
- Roya Ahmadi, Secretary
- Urmet Janes, Treasurer

In the first half of 2021 the ExCom meetings have been organized bi-weekly, starting from September they are organized monthly. Meetings are conducted online and attended by most of the board members. Twice a year (June and December) the extended ExCom meetings are organized in person for better interaction between the members. The largest ExCom meeting is hosted during the traditional IEEE Estonia Section August Seminar. In 2021 for meeting both the recruitment and retention goals the Estonia Section was recognized by the golden medal.



**2021 Outstanding Section Membership  
Recruitment and Retention Performance**

**Estonia Section**

### Students

Student Branches of IEEE Estonia Section:

1. Tallinn University of Technology - 75 student & graduate student members, Chair: Saleh Alsaleh (elected in 2021), Counselor: Omar Abdelghafour (elected in 2021)
2. University of Tartu - 23 student & graduate student members, Chair: Junming Ke (elected in 2021)
3. Tallinn University of Technology Industrial Electronics Society Student Chapter, 11 graduate student members, Chair: Denys Zinchenko (next elections: December 2021).

IEEE Estonia Section actively supports all students and YP activities, both technically and financially.

### Affinity Groups

1. **The IEEE Estonia Section Young Professionals AG** – has organized 3 seminars from the series “IEEE Connecting Experts” on May 12, 2021 (“The Role of Power Electronics in Energy Transition”), June 18, 2021 (“Automated Fault Detection in HVAC Systems with Machine Learning and Rule-based Methods”) and November 4, 2021 (“Towards Intelligent Immersive Virtual Environments”). Moreover, two workshops have been organized. All events have been organized online and attracted a solid number of participants.
2. **The Tallinn University of Technology Women in Engineering Student Branch AG** – recently under formation. This AG is currently led by Karolina Kudelina and Olga Vovk, who have been elected as a Chair and Vice-Chair, correspondingly, at the beginning of 2021. This AG hosted 2 online webinars during 2021.

### Chapters

1. Education [E25 (CH08649)], Chair: Tiia Rütütmann; Vice-Chair: Aleksei Tepljakov. 9 members in Aug 2021, 13 (Aug 2020)
2. Computer/Communications/Information Theory [C16/COM19/IT12 (CH08494)], Chair: Alar Kuusik, 42 members in Aug 2021, 46 (Aug 2020).
3. Instrumentation and Measurement/Electron Devices/Engineering in Medicine and Biology [IM09/ED15/EMB18 (CH08500)], Chair: Paul Annus (elected in 2021), 12 members in Aug 2021, 19 (Aug 2020).
4. Signal Processing/Circuits and Systems/Solid-State Circuits [SP01/CAS04/SSC37 (CH08269)], Chair: Gert Tamberg (elected in 2021), 18 members in Aug 2021, 15 (Aug 2020).

5. Industrial Electronics / Power Electronics / Industry Applications / Power & Energy Joint Societies Chapter [PE31/IA34/PEL35/IE13], Chair: Andrii Chub, Vice-Chair: Indrek Roasto (both elected in 2021), 38 members in Aug 2021, 20 (Aug 2020).
6. Robotics and Automation Society Chapter [*under formation*], Leader: Vladimir Kuts, 15 members in Aug 2021.

### Industry

After some pause caused by Covid situation the relationships with industry are now being recovered. To further boost this activity, we schedule elections of industry ambassadors in mid-December 2021.

### Activities since the last report

- Starting from 2021 the IEEE Estonia Section pays special attention to organization of monthly webinars and online meetings with experts in different disciplines. These events are hosted by different chapters in a sequential manner and became especially popular among students and YPs.
- In Spring 2021 the CH08831 chapter that formerly included Power Electronics and Industrial Electronics societies was reorganized to include two more societies: Industry Application and Power & Energy societies (PE31/IA34/PEL35/IE13).
- Despite Covid situation we have successfully organized the traditional IEEE Estonia Section August Seminar, which was held on August 19-20, 2021 in Tammemäe (Estonia).
- In September 2021 we technically supported the 20th International Symposium “Topical Problems in the Field of Electrical and Power Engineering” and “Doctoral School of Energy and Geotechnology III”, which is a largest PhD forum in Northern Europe.

### Planned activities

- Formation of Women in Engineering AG
- Formation of Robotics and Automation Society Chapter
- Election of industry ambassador
- 1-min speech competition for students and YPs
- Supporting of the IEEEExtreme’2021
- Technical Co-Sponsorship of IEEE conferences CyCon 2022 and BEC 2022 to be held in Estonia

