

## IEEE Estonia Section

**Dmitri Vinnikov, Chair**

### Section Vitality

Last elections of the IEEE Estonia Section Board have been conducted in December 2022. Starting from January, 2023 the Section Board is represented by the following volunteers:

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

In 2022 the ExCom meetings have been organized bi-monthly. Meetings are mostly 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 annual seminar of the IEEE Estonia Section. In 2021 for meeting both the recruitment and retention goals the Estonia Section was recognized by the golden medal. In 2022 our overall performance of the section was kept at the same level.

### Students

Student Branches of the IEEE Estonia Section:

1. Tallinn University of Technology - 60 student & graduate student members, Chair: Arqum Shahid (elected in 2023), Counselor: Omar Abdelghafour (elected in 2021)
2. University of Tartu - 15 student & graduate student members, Chair: Junming Ke (elected in 2021)
3. Tallinn University of Technology Industrial Electronics Society Student Branch Chapter, 12 graduate student members, Chair: Vadim Sidorov, Vice-Chair: Pietro Emiliani (elected in January 2022).

IEEE Estonia Section actively supports all students and YP activities, both technically and financially. Tallinn University of Technology SB demonstrated an outstanding activity and helped the section in the following actions:

1. Promotion of the section and chapters activities to students through social media channels and the IEEE.EE webpage.
2. Providing technical assistance to the chapter members for using the IEEE Section webpage.
3. Help with re-activation of the Tartu SB branch by organizing elections for a new Tartu SB chair.

The list of events organized by the student branches of the IEEE Estonia Section since June 2022:

- 30.10.2022: IEEEEXTREME 16.0 for Estonian IT Students
- 01-02.11.2022: IEEE Paper Contest at the University of Tartu
- 15.12.2022: Young Professionals in Game Development: Follow the Light (in Unreal Engine)

### Affinity Groups

1. **IEEE Estonia Section Young Professionals AG** – 110 student & graduate student members, chair: Aleksei Tepljakov, re-elected in January 2023).
2. **Tallinn University of Technology Women in Engineering AG** – 14 members as of 01.09.2022. Aleksandra Sidorova ([aleksandra.sidorova@taltech.ee](mailto:aleksandra.sidorova@taltech.ee)) was elected a new Chair of the AG in September 2022.

### Chapters

1. Education [E25 (CH08649)], Chair: Valery Vodovozov; Vice-Chair: Zoja Raud (both elected in 2022). 12 members in September 2022 (9 in Aug 2021).
2. Computer/Communications/Information Theory [C16/COM19/IT12 (CH08494)], Chair: Tõnu Trump (elected in 2023), 41 members in September 2022 (42 in Aug 2021).
3. Instrumentation and Measurement/Electron Devices/Engineering in Medicine and Biology [IM09/ED15/EMB18 (CH08500)], Chair: Paul Annus. 14 members in September 2022 (12 in Aug 2021).
4. Signal Processing/Circuits and Systems/Solid-State Circuits [SP01/CAS04/SSC37 (CH08269)], Chair: Gert Tamberg. 18 members in September 2022 (18 in Aug 2021).
5. Industrial Electronics / Power Electronics / Industry Applications / Power & Energy Joint Societies Chapter [PE31/IA34/PEL35/IE13], Chair: Andrii Chub, Vice-Chair: Indrek Roasto. 41 members in September 2022 (38 in Aug 2021).

### Industry

Dr. Jüri Joller was elected as Industry Ambassador of the Section in September 2022. In the next 2 years we expect to refresh our contacts with industry, improve the dissemination and information exchange with the local industrial companies, which will allow them to take the advantages of the opportunities given by the IEEE.

### Activities since the last report

- Open lecture "New technologies in the energy sector as a response to the challenges of the European Green Deal" by Prof. M. Malinowski, president of the IEEE Industrial Electronics Society (Tallinn, 05.10.2022)
- Industrial seminar "3<sup>rd</sup> Estonian DC Innovation Workshop" (Maeru, Estonia, 15.12.2022)
- Christmas ExCom meeting of the Section (Tallinn, 22.12.2022).
- Closing seminar of the ZEBE Center of Excellence in Research (Pärnu, Estonia, 15-17.02.2023)

### Planned activities till September 2023

- The Section will be continuously focusing on boosting the members' activity, which has been rather moderate. To this end, we are planning to experiment with several kinds of social events to have members interact more closely.
- Technical co-sponsorship of the 17th IEEE International Conference on Compatibility, Power Electronics and Power Engineering CPE-POWERENG'2023, which will be held in Tallinn, Estonia on June 14-16, 2023.
- Organization of the Annual Seminar of the IEEE Estonia section in September 2023.



*Attendees of the Open lecture by Prof. M. Malinowski, president of the IEEE-IES (Tallinn, 05.10.2022)*



*Attendees of the Industrial seminar "3<sup>rd</sup> Estonian DC Innovation Workshop" (Maeru, Estonia, 15.12.2022)*



*Attendees of the Closing seminar of the ZEBE Center of Excellence in Research (15-17.02.2023, Pärnu, Estonia)*