



IEEE Sweden Section Annual Report, Fiscal Year 2020

Section activities and achievements

Despite a difficult year for most around the globe due to the ongoing pandemic, IEEE Sweden Section continued to conduct events and seminars at the same pace as previous years, mostly virtual.

Major Chapter Meetings and Events

The **VT/COM/IT chapter** held five technical events, including a distinguished lecture tour, hosted virtually on Throughput Optimization for Grant-free Multiple Access with Multiagent Deep Reinforcement Learning. They also held ten committee meetings during the year. The **EMC chapter** held three board meetings, an AGM and also two seminars- P-static phenomenon and testing; and the emerging implications of wireless coexistence on modern medical environments. The newly formed **Joint Nanotechnology chapter** hosted two events during the autumn. The **PE/PEL chapter** held three technical seminars/lectures including one on impact of electric vehicle charging on power grids. The **ED chapter** held three technical events during the year, one of them being Life on Venus with high temperature electronics. The **E chapter** held a joins conference, together with Norway, Finland and Denmark called- Frontiers in Education. The **SP Chapter** held two events with one co-organized with WIE Sweden Section. The **C chapter** held a workshop on Data Science (SweDS) during October. The **SIT chapter**, which was revitalized in 2018 hosted five events, including a distinguished lecture. The **Photonics chapter** had several board meetings and two technical events, including a talk on Sensors at Antarctica.

The **Women in Engineering (WIE) Sweden Affinity Group (AG)** held two events during the year, with one co-hosted with SP Chapter. The other being International Women Day celebration. They also had their AGM and have a newly elected Chair, who brings in new energy into the AG.

The **Young Professionals AG** supported most of the other events in the section, especially the ones by students and WIE AG. Despite having a setback for not being able to conduct the prestigious R8 SYP 2020 (due to COVID19 spread), the group was able to support the virtual SYP conducted by R8 as an interim replacement for SYP. The opening session of this multi-day event was hosted by Sweden Section proudly. Besides the vSYP, the AG conducted several other talks in collaboration with industries such as Mozilla and Hitachi ABB Power Grids. Some of the Young Professional speakers were also featured in R8 Connecting Experts series.

Perhaps the most satisfying news of the year is that one of the dormant student branches (SB) in Sweden- **Linköping SB** was revived with joint efforts from Sweden Section board and YP AG. The student branch has a new chair and is soon expanding to form a full-fledged EXCOM. They start with examples from the

already established student branches of Sweden- KTH and Chalmers.

Board Activities

During 2020 the IEEE Sweden Section Board had 10 regular board meetings over the web, one per month. The board hosted the AGM and the Chapter Chairs workshop (over the web), taking suggestions from the local bodies related to spread of COVID19. Further, the board supported chapters and affinity group with their activities including budget planning and execution. Having a dedicated industry relations officer on the committee also helped make better connections with several Swedish industries, while also giving the possibilities to host talks and events with them.

We continue to support the younger generation of engineers in every way possible.

International Activities

Both, the spring and autumn edition of R8 meeting was held over the web and was attended by chair- Samarth Deo. The young professionals together with students and women in engineering hosted the multi-day **R8 virtual Students and Young Professionals Congress** with over 100 participants on average per day. **Samarth Deo** was re-nominated as the **Chair of the EPICS-in-IEEE** committee for 2020 while **Gerard Duff** will be a part of two Region 8 sub-committees- the YP and SAC.

Awards and Recognition

The **PE/PEL Sweden Chapter** was awarded the High Performing Chapter of the Year Award by IEEE PES Society.

Members

After an initial dip in the number of members in the beginning of year, there has been a steady recovery in the past months; and as of February 2021, we are 1,967 active members in the Section, of which 56 are Fellows or Life Fellows, and 389 are Senior Members or Life Seniors. The number of members at the Fellow level and at the Senior Member level have been steadily increasing during the past years.

IEEE Sweden Section Board FY 2020

Samarth Deo, Chair

Andrei Gurtov, Vice-Chair

Christofer Silfvenius, Treasurer

Nasim Farahini, Secretary,

Qinghua Wang, Membership Development

Celestine Iwendi, Newsletter Editor

Viacheslav Izosimov, Board member

Mats Edvinson, immediate past Chair

Stockholm, March 25, 2021

Samarth Deo

Chair, IEEE Sweden Section