



IEEE Sweden Section Annual Report, Fiscal Year 2019

Section activities and achievements

The **IEEE Sweden Section** is known for conducting high quality seminars, workshops and conferences on leading edge technologies. 2019 has been a personification to the above. We continue to make progress and remain an example for the sections in Region 8 and worldwide.

Major Chapter Meetings and Events

The **AP chapter** held two notable events during the last year, one of them being a workshop on sensing, imaging and machine learning at Lund University. The **VT/COM/IT chapter** held six technical events, including two distinguished lecture tours, one on Deep Learning in physical layer communication and the other one on Algorithms and formats for adaptive streaming. The **EMC chapter** held two board meetings including one workshop on electromobility. The **PE/PEL chapter** held five technical seminars/lectures including one on grid reliability. The **ED chapter** held thirteen technical events through the year, making them one of our high performing chapters of the section. The **C chapter** held two technical events, the 14th MOPROD workshop and the 12th international symposium on High Level Parallel Programming and Applications, both in Linköping. The **SSC/CAS chapter** collaborated with the Linköping student branch to hold a kick-off meeting for the dormant student branch of the university. The **SIT chapter** revitalized during 2018 and co-hosted the Lightning Week Energy Challenge in Stockholm during 2019. The **RA chapter** held two tech events including seminars on Motion Planning and Control for Underactuated Mechanical Systems and Multi-Armed Bandits and Distributed Decision Making in Robotics and Human Networks. The **Photonics chapter** had eleven technical meetings, including a conference on Nanotechnology Material and Devices in Gothenburg. The **SP chapter** held their AGM towards the end of the year to elect a new board for 2020. The **EPS chapter** held two joint events, in collaboration with the chapter in Denmark and Norway.

The **Women in Engineering (WIE)** Sweden Chapter held two planning events, two technical events, besides supporting the YP (Young Professionals) Affinity Group in many of their events. The **Young Professionals Affinity Group** hosted the 3rd Nordic Students and Young Professionals Congress in October. The event was hosted on a ship between Stockholm and Helsinki while also spending a day in Helsinki and Stockholm. The event was full of technical talks, industry visits and of course- partying on the cruise. Worth mentioning is that they have also won the bid to host the next **IEEE Region 8 Students and Young Professionals Congress in Gothenburg**. The event will be taking place in August and attended by the IEEE President and CEO among other dignitaries. More than 400 students and young

professionals are expected to join the event from all over Europe, Middle East and Africa; making the largest and one of the most prestigious events of its kind in Region 8.

Board Activities

During 2019 the IEEE Sweden Section Board had 10 regular board meetings over the web, one per month, and a face-to-face meeting at the AGM. For the **seventh year** in succession, we held a **successful Chapter Chairs workshop** with the Section, Chapters, YP, WiE and SB, with almost all chapters participating physically in Stockholm or via web; leading to better cooperation, mutual learning and inspiration.

International Activities

The spring edition of R8 meeting was held in Malta and was attended by chair- Samarth Deo and the treasurer- Christofer Silfvenius. The autumn edition took place in Valencia and was attended by the chair too.

The young professionals together with students and women in engineering hosted the **3rd Nordic Students and Young Professionals Congress** with over 50 attendees on a boat between Stockholm and Helsinki. **Samarth Deo** was re-nominated as the **Chair of the EPICS-in-IEEE** committee for 2020 while **Arnold Pears** continues to sit on the Education Society board.

Awards and Recognition

Abhay Kumar, Senior Principal Project Lead Engineer at ABB Power Grids, was selected as the recipient of **2019 IEEE PES Uno Lamm HVDC Award** for his contributions on the development and application of 800 kV Ultra HVDC technology.

Members

The **Section has 1872 members**, including associates and affiliates as on 18th December 2019, of which 304 Senior Members and 35 Fellows.

The section has been commended by MGA for meeting the retention goals for two successive years – 2018 and 2019.

IEEE Sweden Section Board FY 2019

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
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Stockholm, March 23, 2020
Samarth Deo
Chair, IEEE Sweden Section