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**IEEE SE MN2021-Q2/Q3**

## Editorial

The board of the IEEE Sweden section welcomes every member to another academic session. Although this Newsletter is coming slightly late, we hope to improve with the system of collecting news from different chapters. We have accumulated some exciting

news to keep you informed of the progress we are making in local and international collaboration and the free flow of talent and ideas from every member that cut across industry and academia. We solicit for your input as we hope to have a successful journey together. The IEEE Sweden section

remains committed to providing a safe, productive, and welcoming environment to all conferences, events, and meeting participants who engage with IEEE in these discussions. We kindly ask for contributions, feedback, and involvement from our readers. Submit to the Newsletter Editor, Dr. Celestine Iwendi [celestine.iwendi@ieee.org](mailto:celestine.iwendi@ieee.org)

## A message to IEEE Sweden Section members

Dear IEEE Member,

The Section board continues the challenging process of adapting operations with a change of Treasurer and Auditor. Prof Christian Bohm as the new Treasurer together with myself and the past Treasurer perform a bank access and budgeting update that was last done years ago.

We welcome creation of a new Sweden-Norway Chapter on Reliability and invite interested members to join their kick-off meeting.

We also made contact with the Danish and Finnish Sections on future collaboration. R8 area

The Chapter Chair workshop is scheduled for October 29 in a hybrid mode (in Linköpings University and on the Web). It is important for networking and budgeting plans for 2022.

The Section Board met in April, May, June and September. The Nomcom started interviews for the next-year elections, and solicits volunteers for several board positions, such as a Newsletter Editor.

The board followed on several sponsorship requests for conferences in Sweden, R8 student paper competition, and the YP congress organization. We communicated with an IEEE Dealer, provided

support letters to IEEE Ambassador Program, YP prize nominations, as well as starting a Senior membership elevation campaign.

Best wishes. Stay safe.



**Prof. Andrei Gurtov**  
Chair IEEE Sweden Section  
[gurtov@ieee.org](mailto:gurtov@ieee.org)

**Note:** Please, contact Viacheslav Izosimov, Vice-Chair IEEE Sweden Section, at [izosimov@kth.se](mailto:izosimov@kth.se) for registration to the **The Chapter Chair workshop**.

## MEMBERSHIP NEWS

The IEEE Sweden Section is planning a Senior Membership Campaign in the Autumn 2021. The board accepts applications via email until October 31. The board will meet and review the applications in November 2021 and the support letters will be sent out thereafter. Depending on the pandemic situation, the board is willing to meet the applicants physically. If you are interested, please send your detailed CV to [qinghua.wang@ieee.org](mailto:qinghua.wang@ieee.org)

More information about the senior membership can be found in <https://www.ieee.org/membership/senior/>. Please notice that the IEEE Sweden Section only provides support on nomination and reference letter. Membership applications are always done by the members themselves.

## IEEE Sweden and Norway, Reliability Society Joint Section Chapter

The IEEE Sweden and Norway, Reliability Society Joint Section Chapter has been formed from May 21, 2021. The Chapter Chair is Janet Lin (Associate Professor, Luleå University of Technology, Sweden) and the Vice Chapter Chair is Yiliu Liu (Associate Professor, NTNU, Norway).

Nowadays, from a global collaboration's view, IEEE Reliability Society has 28 chapters in total. Among them, 13 are from North America, 9 are from Asia, and only 6 is from Europe. In Europe, those chapters are from Czechoslovakia, Croatia, France, Italy, Switzerland and UK (joint with Ireland). Although, the most well-known reliability distribution, Weibull, was born in Scandinavian countries (Sweden). However, in the recent decades, the voices of Reliability professions from Scandinavian seem weak. Therefore, the motivation that led to forming this Scandinavian Chapter is to promote recognition of the Reliability and reliability related professions and Develop and disseminate *Best Practices* for effective reliability professionals from Scandinavian.

The forming of this unit will develop and provide technical information to the members through publications, conferences, standards, technical library IEEE Xplore, technical committees, and chapter support. It will also provide the members a professional platform to share experience, learn, and develop together. Moreover, it will raise the voices of reliability professionals from Scandinavian to the world; through which, the members recognition would be promoted to the world.

We have started our LinkedIn Webpage, and please try to connect and introduce it to people who may also need the new platform: <https://www.linkedin.com/company/ieee-sweden-and-norway-reliability-society-joint-section-chapter/?viewAsMember=true>

By the way, we appreciate that if you are still interested in any of the volunteer positions in our Adcom team and would like to let us know!

Our kick-off and first Webinar will be on 14<sup>th</sup> Oct, 2021 from 12:00 AM to 13:00 PM by ZOOM (UTC+2). (MEETING ID: 902 728 5345; PASSWORD: 167528)

Last but not the least, please help us to introduce this new Chapter to anyone who may be interested (and other IEEE members can also add RS when other IEEE members renew their membership). Please forward this link to others. <https://rs.ieee.org/membership.html>

# IEEE Photonics Society (PS) Sweden Chapter

## Women-in-Photonics Symposium @ CSW-2021

To promote personal and professional growth for women in Science, Technology, Engineering, and Mathematics (STEM) Prof. Qin Wang (RISE/KTH/IEEE) and IEEE Photonics Society (PS) Sweden Chapter organized a **Women-in-Photonics & Electronics Symposium** with two sessions arranged as part of Compound Semiconductor Week (CSW-2021) in the afternoon/evening on 10-May-2021. The symposium aimed to inspire young professionals and PhD students to embrace the new technology leap in the STEM fields. Due to COVID-19 the symposium was a virtual event. Eight female invited speakers presented their scientific results with theme on Photonics/Electronics. The Symposium was attended by 54 people, but the presentations were available to all CSW participants (more than 300 people) for a couple of months. The symposium was also part of the **UNESCO International Day of Light (IDL) 2021 Event Programme**. The symposium was sponsored by the IEEE-PS Sweden Chapter through an IEEE-PS Chapter Grant. For more info see [IEEE Sweden Section website](#).



Deepa Venkitesh



Andrews Nirmala Grace



Linda Höglund



Irina Bouianova



Linda Mondin



Qin Wang



Ani Khachatrian



Nikzad, Shouleh

## Best Student Paper Award @ ONDM-2021

25th International Conference on Optical Network Design and Modelling (ONDM-2021) was organized by the Optical Networks group at Chalmers. It was a virtual conference scheduled for 28-June – 1-July 2021. More than 260 people attended the conference. Members of the organization committee from IEEE-PS-Sweden were Prof. Paolo Monti (Chalmers), Prof. Lena Wosinska (Chalmers), and Prof. Jiajia Chen (Chalmers) [[more info](#)].

IEEE PS Sweden Chapter was sponsoring the **IEEE Best Student Paper Award** (5,000 SEK) through an IEEE PS 2020 Annual Chapter Grant. The Award Committee had seven members with Dr. Xiaodan Pang (KTH/IEEE) as the Chair. Six candidate papers were shortlisted, and the selection was made based on the reviewers' score, the quality of the oral presentation, and the answers in the Q&A session.

The winner was Sandip Das, a PhD student at the Trinity College Dublin, Univ. of Dublin, Ireland. His paper was entitled "*Optimal Virtual PON Slicing to Support Ultra-Low Latency Mesh Traffic Pattern in MEC-Based Cloud-RAN*". The paper provides a mixed analytical-iterative model to compute optimal virtual PON slice allocation, providing mesh access connectivity with ultra-low end-to-end latency in next-generation MEC-based Cloud-RAN. The proposed method can compute optimal virtual PON slice allocation in timescales compatible with real-time or near real-time operations.



## IEEE Best PhD Thesis Award 2021

In 2017 the IEEE Photonics Society Sweden Chapter established the Best PhD Thesis Award to honor a recently graduated PhD researchers that have conducted outstanding research in the general area of optics and photonics. The IEEE PS-Sweden **2021 Best PhD Thesis Award** is now open for nominations.

Nominees must have obtained their PhD degree from a Swedish university between 1-Sept-2020 and 31-Aug-2021. This requires that the nominee has successfully defended his/her thesis during this period and has fulfilled all requirements to obtain the PhD degree. The 2021 award consists of 10,000 SEK and a certificate. Due to an IEEE Annual Chapter Grant, we were able to increase the 2021 Award to 10,000 SEK. Nominations must be received by the chair of the PhD Thesis Award Committee Prof. Philippe Tassin, Chalmers, by 30-Nov-2021.

### **OPS-2021 conference has been postponed to 2022**

The Optics and Photonics in Sweden is an annual conference that is organized by Photonic Sweden. Since 2016 the IEEE Photonics Society Sweden Chapter has sponsored the **IEEE Best Poster Awards** at OPS. This year the conference venue would have been in October at Umeå University. However, due COVID-19 it was decided to postpone it to next year. The venue will be the same and the Chair of the Awards Committee will still be Prof. László Veisz, Umeå University.

### **WIE Updates**

Just to remind, below are the listed past events during the year.

Now we have schedule event for the 5th of October 20-21

Title Feasibility of Deep learning techniques solving Real world problems (4PM-5PM)

Speaker: Dr. N:M :Nandhitha

Please check for bio and the talk from the link below

<https://events.vtools.ieee.org/m/282509>

We will have one more event too after this one sometime around end of October. In that case WIE is sponsoring a total of 5 events for the year 2021 😊

As I mentioned in my previous email below are the elected new violeenters for IEEE WIE affinity group

<b>Position Title</b>	<b>Current and Newly Elected Volunteers</b>
Affinity Group Chair	Amleset Kelati
Affinity Group Secretary	Parnian Alikhani
Affinity Group Treasurer	Silvia Muceli
Affinity Group Vice Chair	SUDHA RAMASAMY

## IEEE Action for Industry

Swedish industry is experiencing transformations, both with transitioning from work at home to “**flexible hours in the office**” and with changing of job duties due to AI-enabled SW tools and systems. Many companies are experiencing dramatic order increase as the Pandemic is moving to its end. But also many companies are experiencing shortage of the competent workforce.

IEEE has been always associated with experience and knowledge, as the largest engineering organization. AFI in Sweden believes that IEEE can bring a great value to companies facing those competency issues, both regarding the knowledge base and finding good engineers and programmers. AFI in Sweden would like to follow successful examples in Region 8 and is ready to discuss and to sign Memorandums of Understanding (MoU) with Swedish companies who want to establish a deeper relationship with IEEE, from local internships and IEEE knowledge databases to a global talent acquisition.

Please, contact Viacheslav Izosimov, Vice-Chair, at [izosimov@kth.se](mailto:izosimov@kth.se) for MoUs with industry entities.

When it comes to Artificial Intelligence, according to Fredrik Heintz, Associate Professor of Computer Science at Linköping University, Sweden, “**Europe has taken a clear stand that we want AI, but we do not want just any AI. We want AI that we can trust.**” Such slogans like “Creating trust in mobility” and “Machines we trust” become a common marketing strategy for Swedish manufacturers as well, OEMs and Tier1s. It sends a clear message to engineers and managers with “safety as the first priority” or “security is everyone’s responsibility”.

To learn more about AI-enabled transformations and trustworthiness, on November 10, at 15:00-16:15, AFI Sweden is planning to have a webinar **Towards Trustworthy AI - Integrating Reasoning and Learning** with **Fredrik Heintz**, Associate Professor of Computer Science at Linköping University, Sweden. Fredrik leads the Reasoning and Learning group, the Director of the Graduate School for the Wallenberg AI, Autonomous Systems and Software Program (WASP), coordinator of the TAILOR ICT-48 network developing the scientific foundations of Trustworthy AI, and the President of the Swedish AI Society. Fellow of the Royal Swedish Academy of Engineering Sciences (IVA).



## Upcoming events

**ONDM 2021:** 25th International Conference on Optical Network Design and Modelling (ONDM-2021) is organized by the Optical Networks group at Chalmers (Prof. Paolo Monti, et al). The venue is Gothenburg on 30-May – 3-June 2021. IEEE Photonics Society Sweden Chapter will sponsor the Best Paper and Best Poster Awards.

As a part of the **Compound Semiconductor Week (CSW-2021)** Prof. Qin Wang (RISE/KTH) is organizing a **Women-in-STEM symposium** with several invited international speakers. The event is sponsored by **IEEE Sweden Section**, as well as **IEEE Photonics Society Sweden Chapter** through IEEE Chapter Grants. The CSW 2021 venue is at the Münchenbryggeriet in Stockholm on 9-13 May-2021 (the symposium is on Monday 10-May).

**SAIS Workshop 2021:** 33rd SAIS Workshop: SAIS 2021. This edition of the annual workshop of the Swedish Artificial Intelligence Society (SAIS) will be held as a hybrid conference on June 14 – 16, 2021. The tentative physical venue (with social distancing) will be A109 (LTU, Luelå campus) while the online channels will be Zoom and Slack.

**Compound Semiconductor Optics and Photonics in Sweden (OPS-2021):** The Optics and Photonics in Sweden (OPS-2021) conference is organized by PhotonicSweden and Umeå University. The general chair is Prof. Ove Axner, Department of Physics, Umeå University. October 6 @ 09:00 - October 7 @ 17:00. Since 2016 the IEEE Photonics Society Sweden Chapter has sponsored the Best Poster Awards at OPS. This year it will be three (3) Awards: 1x Best Poster Award (3 000 SEK) and 2x Best Poster Distinctions (1 000 SEK each).

### The 9th Swedish Workshop on Data Science

December 2 - December 3

### [Optics and Photonics in Sweden \(OPS-2021\)](#)

October 6 @ 09:00 - October 7 @ 17:00

### [IEEE Seminar on “Electrical vehicles for sustainable developments with a European perspective”, by Professor Lina Bertling Tjernberg](#)

September 23 @ 15:30 - 17:00

## Sites for Success

IEEEExplore: <http://ieeexplore.ieee.org>

IEEE ResumeLab [http://www.ieee.org/membership\\_services/membership/resumelab](http://www.ieee.org/membership_services/membership/resumelab)

IEEE Job Site <https://jobs.ieee.org>

IEEE Student scholarships, grants and fellowships:

<https://www.ieee.org/membership/students/scholarships-grants-and-fellowships.html>

IEEE Membership

<https://www.ieee.org/membership/index.html>

IEEE Women in Engineering

<https://www.facebook.com/ieeewomeninengineering>

IEEE University Partnership Program:

<https://www.facebook.com/ieee.upp>

IEEE Member and Geographic Activities Operations Manual

<https://mga.ieee.org/board-committees/operations-manual>