



IEEE Sweden

**Vehicular Technology / Communications / Information Theory**

**Joint (VT/COM/IT) Chapter**

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Chapter Chair (October 2021 – )  
Vice chair 2018-2020 (interface to IT Society)  
Board member 2014-2017

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- Student Activities and Online and Social Media Development



# Core Activities

- Swedish Communication Technologies Workshop (Swe-CTW)
- VT-COM-IT Joint Chapter Best Student Journal and Conference Paper Award
- IEEE Distinguished Lecturers Tours (DLTs) and invited distinguished "IEEE Technical Seminars" speakers from academia/industry
- Technical Sponsoring of workshops
- Social media
- Award identifications, nominations, member elevations
- Administrative board meetings, MoMs stored on document server (Box)

## Award Promotions and Nominations

- Handed out, in conjunction with Swe-CTW'2023, the 11th
  - IEEE Sweden VT-COM-IT Joint Chapter Best Student Journal Paper Award 2023
  - IEEE Sweden VT-COM-IT Joint Chapter Best Student Conference Paper Award 2023
- All winners are published at <http://sites.ieee.org/sweden-vtcomit/best-student-paper-award>, so that winners can refer in their CVs.

# Swedish Communication Technologies Workshop (Swe-CTW)

- Initiated by the IEEE Sweden VT/COM/IT Chapter
  - 2011 Stockholm, 2012 Lund, 2013 Gothenburg, 2014 Västerås (co-located with SNCNW 2014), 2015 Karlstad (co-located with SNCNW 2015), 2016 Mid Sweden University, Sundsvall, 2017 Chalmers University of Technology, Gothenburg, 2018 Linköping University, 2019 Lund University, 20-22 Online mini-version. <http://sites.ieee.org/swe-ctw/>
- Focus on networking for young researchers (PhD students and post docs) in Sweden (and the nordic countries)

## Format of Swe-CTW

- The workshop feature tutorials, poster presentations of submitted abstracts, and invited talks by the top nominated papers for
  - IEEE Sweden VT-COM-IT Joint Chapter Best Student Journal Paper Award
  - IEEE Sweden VT-COM-IT Joint Chapter Best Student Conference Paper Award
- **This year:** back from online to physical workshop, Sep 27-28, KTH

# Activities During 2023

- **SWE-CTW, Sep 27-28, 2023, KTH Kista** Over 100 participants this year!  
<https://site.ieee.org/sweden-ctw/>

## Program at a glance

- September 27 (afternoon):
  - **Student presentations:** Short-listed papers for the IEEE Sweden VT-COM-IT Joint Chapter Best Student Conference/Journal Paper Awards (<http://site.ieee.org/sweden-vtcomit/best-student-paper-award>)
  - **Poster presentations:** Anyone can present their recent work in a poster session.
  - Inspirational lecture on the future of our research areas
- September 28: **Wireless Future Symposium**
  - **Keynote speakers:**
    1. Deniz Gunduz (Generative AI for Wireless Communication)
    2. Liesbet Van Der Perre (Remote IoT nodes: in need of a flying doctor?)
    3. Luca Sanguinetti (Holographic MIMO Communications: What is the benefit of closely spaced antennas?)
    4. Fredrik Tufvesson (Channel modeling for 6G)
    5. Henk Wymeersch (Radio localization and sensing)
    6. Jakob Hoydis (Differentiable Tools for Digital Twin Networks)
  - **Wireless Future Live podcast recording**  
Panel discussion led by Erik G. Larsson and Emil Björnson
  - **Workshop Dinner**

# Activities During 2023

- **Technical seminars and distinguished lectures**

- IEEE Technical hybrid seminar "Optical data center network architectures" by Prof. Suresh Subramaniam, George Washington University, USA, Jan 27, 2023, Chalmers
- IEEE VT Society Distinguished Lecture "What will it take for wireless communications to conquer the sky?" by Prof. Giovanni Geraci, UPF Barcelona, Spain  
May 8-12, 2023: Linköping University, KTH, Ericsson Kista, Chalmers, Lund University
- IEEE Technical hybrid seminar "Active versus passive metasurfaces for wireless communications" by Prof. Allesio Zappone, University of Cassino and Lazio Meridionale, Italy, June 16, 2023, Lund University
- IEEE Technical online seminar: "Physical layer authentication for 6G networks" by Prof. Stefano Tomasin, University of Padova, Italy, Sep 15, 2023, Chalmers
- IEEE Technical online seminar: "Fundamental Limits of ISAC Under Gaussian Channels" by Assistant Professor Fan Liu, Southern University of Science and Technology (SUSTech), China, Oct 13, 2023, Chalmers
- IEEE IT Society Distinguished Lecture "Viewing Differential Privacy through the Lens of Information Theory" by Prof. Parastoo Sadeghi, University of New South Wales, Sydney, Australia  
Oct 6 & 24, 2023: KTH and Linköping University

- **Upcoming:** IEEE ComSoc Distinguished Lecture, Prof. Nan Yang, Nov 23, 2023, KTH

# Activities During 2023

- **Technical sponsoring of conferences/workshops 2023**
  - 2023 EuCNC & 6G Summit, Gothenburg June 6-9 (co-sponsored by ComSoc)
  - 894 registered participants, the second largest ever in the conference series
  - Tommy Svensson: Lead local organiser and TPC Chair
- **Recipient of IEEE IT Society 2023 Chapter of the Year Award**  
Handed out at ISIT 2023 in Taipei, Taiwan, June 2023
- **Industry seminars program**
  - First seminar: Dr. Mikael Coldrey, Ericsson Research, Gothenburg, Nov 30, 2022
  - More seminars in preparation
- **Award identifications and nominations**



# Awards received

- IEEE Information Theory Society Chapter of the Year Award 2023.
- IEEE Vehicular Technology Society Chapter of the Year Award 2022.
- IEEE Communications Society Chapter Achievement Award 2020 and 2021
  - 4 chapters awarded in the world
- IEEE Information Theory Society Chapter of the Year Award 2017
- IEEE Vehicular Technology Society Chapter of the Year Award 2016
- IEEE Region 8 Chapter of the Year Award 2015
  - Large chapter category
- IEEE Communications Society Chapter Achievement Award 2015
  - 4 chapters awarded in the world
- IEEE Communications Society Special recognition award 2013
  - "For long-time achievements in chapter activities and ongoing excellence serving its members".
- IEEE Information Theory Society Chapter of the Year Award 2013
- IEEE Communications Society Chapter Achievement Award 2013
  - 4 chapters awarded in the world
- IEEE Communications Society Chapter Achievement Award 2012
  - 4 chapters awarded in the world
- IEEE Communications Society Chapter Achievement Award 2011
  - 4 chapters awarded in the world

# Members

- **AGM 2023:** VT/COM/IT memberships: 338 (VT:72, COM:220, IT:46), (unique members: N/A).
- **AGM 2022:** VT/COM/IT memberships: 325 (VT:67, COM:217, IT:41), (unique members: N/A).
- **AGM 2021:** VT/COM/IT memberships: 325 (VT:71, COM:211, IT:43), (unique members: N/A ).
- **AGM 2020:** VT/COM/IT memberships: 329 (VT:65, COM:227, IT:37), (unique members: N/A ).
- **AGM 2019:** VT/COM/IT memberships: 337 (VT:65, COM:226, IT:46), (unique members: N/A ).
- **AGM 2018:** VT/COM/IT memberships: 492 (VT:101, COM:315, IT:76), (unique members: 331).
- **AGM 2017:** VT/COM/IT memberships: 522 (VT:102, COM:346, IT:74), (unique members: 360).
- **AGM 2016:** VT/COM/IT memberships: 587 (VT:104, COM:403, IT:80), (unique members: 419).
- **AGM 2015:** VT/COM/IT memberships: 723 (VT:121, COM:517, IT:85), (unique members: 536).
- **AGM 2014:** VT/COM/IT memberships: 797 (VT:117, COM:583, IT:97), (unique members: 599).
- **AGM 2013:** VT/COM/IT memberships: 675 (VT:111, COM:474, IT:90), (unique members: 491).
- **AGM 2012:** VT/COM/IT memberships: 848 (VT:127, COM:616, IT:105), (unique members: 630).
- **AGM 2011:** VT/COM memberships: 611 (VT:115, COM:496), (unique members: 506).

Comment 1: There is a drop in members, but slightly improving recently

Comment 2: There seems to be less members when the AGM is held in spring (compared to autumn)

# Dissemination

- Pending: Invited for to write an article for Comsoc Global Communications Newsletter.
- Tommy Svensson participated in the ComSoc EMEA Region Chapter Chairs Congress 2018 Dec 2018 and presented our Chapter activities.
- Article in VT Newsletter Sep 2018, online: <https://vtsociety.org/2018/09/vts-chapter-profile-ieee-vts-sweden-chapter/>
- Article in IT Newsletter Sep 2017, online: <http://www.itsoc.org/publications/newsletters/september-2017-issue/view>
- Brief contribution related to ITS award to IEEE Sweden Newsletter Sep 2017.
- Article in VTS Newsletter May 2016, online: <http://newsmanager.commpartners.com/ieevts/issues/2016-05-29/1.html>.
- Article in Oct 2015 issue of Comsoc Global Communications Newsletter, online: [http://www.comsoc.org/files/Publications/Magazines/gcn/pdf/GCN\\_2015\\_10.pdf](http://www.comsoc.org/files/Publications/Magazines/gcn/pdf/GCN_2015_10.pdf).
- Michael Mentmaier presented our chapter activities for IT Society during the ISIT June 25-30, 2017.
- Tommy Svensson took part in the IEEE Sweden Section Chapter Chairs meeting in Stockholm, Oct 6, 2016 and presented the IEEE VT/COM/IT Chapter activities.
- Reporting to Comsoc on activities via Comsoc Questionnaire Spring 2017.
- Annual report for 2016 presented during AGM, April 20, 2017.
- Brief contribution related to ITS award to IEEE Sweden Newsletter Sep 2017.