

Finland Section

Mahdi Pourakbari Kasmaei, chair

Section Vitality

Please provide information about the date of last Section elections, date of next elections, and do you have the practice of Vice-Chair becoming the next Section Chair. Section ExCom meetings (list them and provide brief summary if appropriate). List the activities carried out to retain and recruit members and the results obtained.

- The last Section election took place in Nov. 2022. We do not have a mandatory practice of Vice-Chair becoming the next Section Chair, we carry out elections, and any candidate can be nominated. We had 2 section board meetings in 2022. In our meetings, we discussed our plan to support local conferences in Finland and arrange joint events at the time of the conferences.
- We update the news on the IEEE Finland website very actively and also have a LinkedIn page where we communicate with our followers.
- With the National Society Agreement (NSA) made between IEEE Finland and the Finnish Society of Automation (FSA), the joint activities with FSA in activities for 2022-2023 are
 - Side event at International Symposium on Industrial Electronics (ISIE2023)
 - Student & young professional Get together at Automation Days 2021
 - Joint publication with Finnish Society of Automation to Automaatiöväylä professional magazine
- We aim at organizing the Best Paper Award for papers published in 2022 (no financial prize, just recognition). The submission will be open during May. We have this topic in our upcoming meeting on May 4th.
- Ideas to organize social events for students in cooperation with Automaatioseura (speakers from industry + time to get to know each other)!

Students

List of Student Branches (SB) in your Section, the newly formed or dissolved SBs, if any since the last meeting reporting (Oct 2020). List the student meetings held and Section activities addressed to Students and Young Professionals.

- No student branches but student representative was very active e.g., in organizing social event in Automaatiöpäivät

Affinity Groups

List of Affinity Groups (YP, LM, WiE, SIGHT, etc.), list of SB AGs, newly formed or dissolved AGs/SB AGs, if any since the last meeting reporting (Oct 2020). List the activities intended to support affinity groups.

We have a very active young professionals affinity group in Finland and a young professionals representative in the Finland Section Board. A very nice in-person meeting for young professionals took place hybrid on 08.11.2022.

We exchanged some nice ideas to form Life Member Affinity Group (LMAG) in Finland Section. We already found a potential volunteer and just waiting for the final agreement.

Chapters

List of Chapters and SB Chapters in your Section, the newly formed or dissolved Chapters, if any since the last meeting reporting (Oct 2020). Indicate how many have reported on time and received rebate. Highlight some of the activities.

- IEEE Finland Joint Chapter of Control System Society, Robotics and Automation Society and System, Man and Cybernetics Society ([IEEE Finland CSS/RAS/SMCS Joint Chapter](#))
- Finland Section Jt. Chapter of Signal Processing/Circuits and Systems (SP01/CAS04 Joint chapter)
 - IEEE FINLAND WORKSHOP ON SIGNAL PROCESSING AND CIRCUITS AND SYSTEMS
 - 2021 IEEE SPS CYCLE 2 SCHOOL ON NETWORKED FEDERATED LEARNING: THEORY, ALGORITHMS AND APPLICATIONS
 - Rebate: Yes
- IEEE Nordic Countries Nanotechnology Council Chapter (Finland, Sweden, Denmark, Norway Jt Sec. Chap, NANO42) (formed Nov 2020)
 - IEEE WIE WEBINAR: ORGANIC BIOELECTRONICS.

- SUSTAINABLE SOLID-STATE LITHIUM-ION BATTERIES (SOLBAT)
- IEEE NTC NORDIC COUNTRIES CHAPTER OFFICERS MEETING
- CH08037 - Finland Section Jt. Chapter, AP03/ED15/MTT17
- IEEE Finland Joint IES&PES Chapter (IE13/PE31/IA34/PEL35)
 - SUMMER COURSE AT AALTO UNIVERSITY ON CONDITION MONITORING AND DIAGNOSTICS OF POWER ASSETS
 - SUMMER COURSE AT AALTO UNIVERSITY ON RELIABILITY ASSESSMENT IN THE ELECTRIC POWER SYSTEMS BY PROF. MAHMUD FOTUHI-FIRUZABAD
 - SPEECH ON "POWER ELECTRONICS, ARTIFICIAL INTELLIGENCE (AI), AND REAL-TIME MODELING SIMULATION AND CONTROL FOR THE TRANSITION TOWARDS A RENEWABLE ENERGY ECONOMY" BY PROF. MARCELO GODOY SIMÕES
 - Rebate: Yes
- IEEE Finland Section Communications and Information Theory Joint Societies Chapter (IEEE Finland Section Jt. Chapter, COM19/IT12)
 - WAVE-CONTROLLED METASURFACE-BASED RECONFIGURABLE INTELLIGENT SURFACES
- Electronics Packaging Society, Nordics Chapter (EP21)
- Finland Section Jt. Chapter, CS23/RA24/SMC28
 - AI IN ROBOTICS AND SMART MATERIALS – FUTURE OF ROBOTICS IN FINLAND SEMINAR 2022
 - 2021 IEEE SPS CYCLE 2 SCHOOL ON NETWORKED FEDERATED LEARNING: THEORY, ALGORITHMS AND APPLICATIONS

Industry

List the activities carried out to foster relations with Industry and the results obtained.

Two events were successfully organized.

- In 2020 and 2021, we started IEEE@industry, and in 2022, we are trying to include more industries. According to report, this was a very successful collaboration between IEEE, Academia, and industry.

In our upcoming meeting in May, we will discuss about organizing some industry visits.

Activities since the last report

Highlight some of the activities in your Section, with special attention to the things that work well, and things that don't, so that your acquired know-how can be used by other Sections.

The following types of activities, in our opinion, are the most attractive and we can recommend those to the other sections:

- Two summer courses for our IEEE Section members as follows: 1) RELIABILITY ASSESSMENT IN THE ELECTRIC POWER SYSTEMS, and 2) CONDITION MONITORING AND DIAGNOSTICS OF POWER ASSETS. We offered 4 credits for each course to those meeting the criteria (participation and exam).
- Organizing a webinar on "POWER ELECTRONICS, ARTIFICIAL INTELLIGENCE (AI), AND REAL-TIME MODELING SIMULATION AND CONTROL FOR THE TRANSITION TOWARDS A RENEWABLE ENERGY ECONOMY". We had 94 participants for this webinar.
- Organization of side events with large conferences where local IEEE members and conference participants can exchange information and establish new connections
- Cooperation with other local professional societies
- Organizing young professional activity; the meeting was hybrid and we had 30 participants.

Planned activities

Highlight some of the future activities and initiatives in your Section.

- Organizing a Side Event for students and young professionals: Getting to know industry; the event is together with the Finnish Society of Automation (FSA); takes place on March 28th.
- Organizing IEEE@Industry with other leading companies in Finland.

- Call for new round of the **Best IEEE Finland Section Student Paper Award** for papers published during 2022.
- Together with the Finnish Society of Automation (FSA), we are planning a student and young professionals side event for ISIE2023 and the Finnish Automation days.
- Organizing keynote speeches.

How Region 8 can be of help to your Section, members, and activities

List any challenges you Section is facing and what support is required from the Region 8. Please, also, give us your suggestions for agenda items that you want to be discussed during the R8 Committee meeting.

How to have better interaction with industries? How to increase the number of IEEE members? What are the main reasons to be an IEEE member? How to improve efficient membership marketing during events and on social media?

Any other issues of interest