NORDIC IIoT NEWS No. 1, 2023

Student driven Hub initiatives

During the Yearly meeting in November in Trondheim it was decided that more student driven activities were appreciated.

In the past the PhD students organized an on-line hackathon with the theme "IoT in space and on Mars."

In order to get the new initiative off the ground

an organizing group of three students has been nominated:

- Jaakko Harjuhahto,Aalto jaakko.harjuhahto@aalto.fi
- Radheshyam Singh, DTU radsi@fotonik.dtu.dk
- Stanley Nwabuona, DTU schnwa@dtu.dk

Please contact them if you have ideas for an event.

2023 Summer schools

In the past the Hub has organized yearly Summer schools addressing some of the key issues related to Industrial IoT.

Instead of organising our own Hub Summer school in 2023 we have selected four leading European Summer schools covering a wide range of subjects. We have selected the most relevant with respect to technical subject, scientific level, quality, etc. As a Hub student you can freely participate to one of these Summer schools, which are:

The International Cyber Security Summer School, Leiden, NL

Methods and tools for resilient industrial IoT, Munich, DE

Summer School on Cyber Physical Systems and Internet of Things, Budva, ME

Industry 4.0 Summer School, Aachen, DE

Please contact your supervisor if you are considering attending one of these Summer schools.

Hub calendar

Improving the Precision of Automatic Program Repair with Machine Learning
24 February, Stockholm

ACM/IEEE International Conference on Human-Robot Interaction
13 – 16 March, Stockholm

Addressing Uncertainty in the Safety Assurance of Machine-Learning
6 April, Stockholm

Computation offloading in Edge and cloud environment: Survey, taxonomy, applications and open challenges
1 June, Stockholm

A proposal for a Nordic IIoT Master program

Educating the next generation of engineers to be able to design and develop the rapidly increasing need for Industrial Internet of Things (IIoT) devices is imperative. Beside the joint PhD education, the overall goal of the Nordic IIoT Hub is to determine the preferred content of a Nordic Industrial IoT MSc curriculum.

By the end of 2022, the Hub presented a report with a proposal for a joint Nordic IIoT Master program.

The report starts with a review of CPS/IoT-related courses currently being offered at the eight university departments involved in the Nordic HI2OT project. Next it defines which courses should be included in a Nordic IoT curriculum.

Finally, it discusses how such a curriculum could be implemented in a shared way by making use of the tools and teaching methodologies developed in H2IOT.
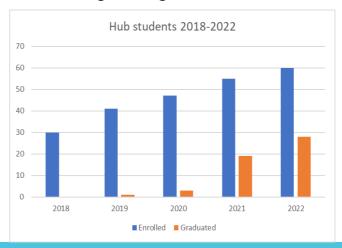
For international comparison the report also lists similar programs offered at other leading universities.

In addition, the goal of the report is to assist in the effort to build or adapt programs that the partner institutions currently offer to meet the current and future IoT/CPS education and employment needs.

Awards to Hub students

Claudio Mandrioli, LTH received the international "SIGBED-SIGSOFT Frank Anger Memorial Award 2022". The award promotes cross-disciplinary research between embedded systems and software engineering.

Mohammadreza Barzegaran, DTU received the 2022 outstanding paper award at the 30th International Conference on Real-Time Networks and Systems.

Student statistics

Hub students 2018-2022

Enrolled ■ Graduated ■

NordForsk