

Prolongation of the IIoT Hub

Our Nordic University Hub on Industrial Internet of Things was granted with a duration of six years, i.e. 2018-2023. This duration reflects that the objective of the project was to establish a durable and lasting cooperation between our eight departments from five Nordic universities. As can be seen from our annual financial reporting we have always been behind

schedule in spending the annual budget. This was mainly caused by the Covid-19 pandemic which closed down our universities for 18 months.

On this background Nordforsk has granted us a 12 months prolongation of the contract, meaning that the Hub will cease 31 December 2024.

Special session at Embedded Systems Week

For the Embedded Systems Week on 17-22 September in Hamburg, Paul Pop and Martin Törngren have got accepted a Special session proposal entitled: Green IoT and Green ICT for the Green Transition: Challenges, Opportunities, Recent Research.

Apart from the organizers there will be presentations from:

Prof. Sonia Yeh, Chalmers University of Technology, SE
Dr. Christian Graulund, Danfoss Drives, DK
Prof. David Atienza, EPFL, CH

Student meeting in preparation

On 29-31 August a Hub student meeting will take place at Aalto in Espoo.

The event will include both social events like a city tour, outdoor games and a barbeque party as well as a number of scientific events like IoT product development, 3-minutes pitch competition and a visit to an industrial company to hear about smart manufacturing and industrial IoT.

During the workshop you will have the chance to develop an IoT product like:

- Mini solar panels powered Arduino device
- Temperature sensors
- ePaper screen

A more detailed invitation will be sent to the PhD students late June.

Contact at Aalto:
jaakko.harjuhahto@aalto.fi

Nordforsk position paper

Recently Nordforsk made a call for *Fast Track publications* from ongoing projects to capitalize on the research results and knowledge that has been built during the first years of Vision 2030. The aim of Vision 2030 is that the Nordic region will become the most sustainable and integrated region in the world by 2030.

The input will be used to support the development of the new collaborative program for the years 2025-2030.

The Hub results as summarized in the Nordic IIoT road-map demonstrates that digital technologies, if harnessed properly, can drive the Nordic region towards a sustainable future. But this requires targeted policies and innovations that can solve the challenges with digital tech.

Our Hub position paper, entitled *Digital Technologies for a Sustainable Nordic Future - Challenges, Opportunities, and Policy Implications* gave the following recommendations:

- Foster trustworthy digitalization and multidisciplinary collaboration
- Encourage the use of renewable energy sources, improve energy efficiency, and reduce e-waste of digital systems
- Establish 'Sustainability Innovation and Competence Hubs' to drive the digital transformation.

The policy paper was drafted by Paul Pop with input from Martin Törngren, Sonia Yeh (Chalmers) and Haydn Thompson (THHINK).

Hub calendar

WARA Summer School on synthesis of human communication, 21-25 August Norrköping, SE

Workshop on Beyond Traditional Sensing for Intelligent Transportation. 24 September, Bilbao, Spain

Embedded Systems Week, 17-22 September, Hamburg

WASP Industry Days, 6-7 November, Västerås, SE

IEEE ITSC in Bilbao

On 24 september the Hub is co-organizing a workshop on Beyond Traditional Sensing for Intelligent Transportation in Bilbao, ES. The objective of the workshop is to explore unconventional sensing for

intelligent transportation analysis.

From the Hub Xenofon Fafoutis, DTU and Vesa Hirvisalo, Aalto are on the organizing committee.

