



# INDUSTRY CLUB

Newsletter #9 November 2023

[industryclub.control.lth.se](http://industryclub.control.lth.se)



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## Automatic Control Industry Club

*Exploring, Expanding and Applying Control Technology*

The Industry Club is the ecosystem around the Department of Automatic Control at Lund University. The Industry Club is a forum for sharing ideas and getting feedback on the research we do. We reach out to you, the industry and organizations to initiate and collaborate on new projects and research. The Industry Club interface is this recurring newsletter, our webpage, and online and live events.

We welcome you to be a part of this!

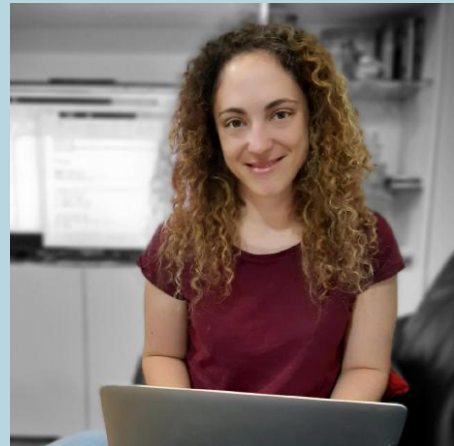
## Highlights from the Department



*Johan Eker*

- The department has obtained several new WASP projects. Johan Eker has obtained funding for the project “Ad-hoc compute offloading for autonomous connected vessels” that is connected to the WASP Research Arena on Public Safety (WARA-PS). For this project Emil Sundström from LTH has been hired as a new PhD student. Yannis Karayiannidis and Björn Olofsson have obtained funding for the project “Whole-Body Interactive Mobile Manipulation” connected to the WARA on Robotics. For this project

Sebastiano Fregnan from University of Verona has been hired as a PhD student starting in January 2024.



*Martina Maggio*

- Martina Maggio is a co-PI in the recently granted WASP NEST project “DYNamic Attack detection and mitigation for seCure autonomy” (DYNACon) on cyber-security led by Henrik Sandberg, KTH. A NEST project is a larger project consisting of 3-5 (co)-PIs. In this project Talitha Nauta from LTH has been hired as a PhD student. Martina Maggio is also co-PI of an already started NEST on Cloud Robotics led by Florian Pokorny from KTH. In this project she has now hired Yde Sinnema from Belgium as a PhD student.

- Through WASP the department has also obtained funding for two new industrial PhD students. Peter Stoltenberg from Saab Kockums will work in the project “Intelligent trajectory predictions at sea using neural ordinary differential equations” with Björn Olofsson as university advisor and Anders Berkeman from Ericsson will work in the project “Joint Communication and Radar Sensing for Autonomous Systems” with Bo Bernhardsson as university advisor.

- We have two new professors in real-time systems, Martina Maggio at 100% (from January 1<sup>st</sup>, 2024) and Johan Eker at 50%.

## Upcoming Opportunities



*Albin Heimerson*

- *New Dissertation* – On November 24<sup>th</sup>, Albin Heimerson will defend his PhD thesis “Learning to Control the Cloud”. Albin’s advisor is Johan Eker with Karl-Erik Årzén as co-advisor. The opponent is Ivona Brandic from TU Vienna and the thesis committee consists of Rolf Stadler, KTH, Farnaz Adib Yaghmaie, Linköping University, and Geir Horn, Oslo University. The defense will take place at 10:00 in M:B in the M-building of LTH.
- The strategic research area ELLIIT on IT, Mobile Communication and Digitalization will have its annual workshop in Lund on March 7<sup>th</sup>-8<sup>th</sup>, 2024. In connection with the workshop and internal review of ELLIIT will take place by a group of five international experts.
- *ELLIIT Focus Period on "Security and Fault Tolerance of Cyber-Physical Systems", April 1<sup>st</sup> to May 3<sup>rd</sup>, 2024*: During this intense month of brainstorming in Lund, we will be joined by a multitude of international scholars who share our passion for overcoming research challenges around the design of secure and safe cyber-physical systems. These scholars will have the unique opportunity to engage with leading scientists and our dedicated ELLIIT researchers, fostering an environment of collaborative advancement. Mark your calendars for the week of April 16<sup>th</sup>-18<sup>th</sup>, as we will be hosting a special three-day symposium featuring presentations

from several top-tier researchers in the field. For further information, check out the website <https://elliit.se/news-and-events/focus-period-lund-2024>

- The WASP 2024 call for academic PhD students is currently open and will close on January 26<sup>th</sup>, 2024. Nominally 25 projects will be granted. For more information see:

<https://wasp-sweden.org/calls/call-for-wasp-academic-doctoral-student-positions-3>

The 2024 call for industrial PhD students has been moved from the spring to the fall. It will open on June 10<sup>th</sup> and close on October 1<sup>st</sup>. Subject to a board decision a call for industrial postdocs will open and close on the same dates. A board decision is also required for a new call for WARA PhD students, which in that case will open on January 15<sup>th</sup>, 2024 and close on April 10<sup>th</sup>, 2024.

- *The EUROPT conference, June 26<sup>th</sup>-28<sup>th</sup>, 2024*: EUROPT is an annual gathering dedicated to optimization, aligned with the EURO2024 conference (<https://euro2024cph.dk>). This year the conference will be organised by Pontus Giselsson, and take place in LTH.

- *22<sup>nd</sup> European Control Conference (ECC), Stockholm (June 25<sup>th</sup>-28<sup>th</sup> 2024)* – Themed around sustainability impact, the conference promises a blend of cutting-edge research and practical applications. There will be an Industry Day on June 27<sup>th</sup>. Participants will have the opportunity to network extensively and attend industry-specific panels and sessions designed to foster collaboration between researchers and practitioners. For more information, including information on how to participate, see:

<https://ecc24.euca-ecc.org/industry-day>

## Contact

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# Applications of Control

