



INDUSTRY CLUB

industryclub.control.lth.se // newsletter No 7



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The Automatic Control Industry Club: Exploring, Expanding and Applying Control Technology

Welcome to Newsletter No 7, February 2023

The interface of the Industry Club will be a recurring newsletter, a webpage, and online and live events

We welcome you to be a part of this!

Industry Club

The Industry Club is an initiative to build an ecosystem around the Department of Automatic Control at Lund University. Industry Club is a forum for sharing ideas and getting feedback on the research we do - to reach out to the industry and other organizations to collaborate on new projects and initiate new research collaborations.

Highlights from the department

Interesting topics are being discussed on a daily basis at the department. Here are a few examples of recent topics that we would like to highlight.

- *Industry Club Day – March 23, 2023!* We are planning for an Industry Club Day on March 23, 2023, at 15-18. This will be an event aimed for networking and sharing of ideas and thoughts. The program will contain round table discussions and networking, among other things. We hope to meet you all – welcome! See invitation on the [webpage](#)
- *New project funded by Vinnova* - In January this year the project “AORTA – Advanced Offloading of Real-Time Applications” started. The three-year project is funded by VINNOVA’s advanced and innovative digitalization program and also involves Ericsson (coordinating partner), Mälardalen University, and Cognibotics. The topic of the project is the real-time cloud and how one can offload resource-demanding control and machine learning application to the edge/cloud. Currently we have a PhD student position open for this project, which closes on March 1, 2023.
- *New Focus Areas* - Recently several Profile Areas have been initiated both at the LTH and LU level. The objective is to strategically spark re-

search, collaborations, and education, across disciplines and industry, to address some of the biggest engineering challenges of our time. The department is well represented in several areas, including “The Energy Transition – Power and Transport”, “Engineering Health”, “Pillars of AI and Digitalization”, “Natural and Artificial Cognition”, and “Circular Building Sector”. If you have any ideas, input, or would like to be involved, we would love to hear from you!

- *Distinguished Guest Professor* - Professor Frank Allgöwer from the University of Stuttgart has been appointed WASP Distinguished Guest Professor for the next two years. He will bring expertise in, for example, model predictive control and data driven methods, to the Department of Automatic Control.
- *New contacts* - Changes within Personnel at the department: Karl Johan Åström has retired as Senior Professor and become Professor Emeritus in January, 2023. Anton Cervin is changing career to become high school teacher. During 2022 we engaged two new Associate Professors within the Robotics research area; Yiannis Karayiannidis, lately at Chalmers and Björn Olofsson, from Linköping University and now sharing his time between academia and industry. As from April 1st, Martina Maggio is our second female full Professor and Johan Eker will change his position from Adjunct Professor to Professor, splitting his time in half between academia and industry.



Y. Karayiannidis

B. Olofsson

M. Maggio

J. Eker

Highlights from the control world

We frequently attend control conferences, events and meetings around the globe. Below you'll find a glimpse of what we consider the most valuable take-aways.

- *Major Control Conferences in 2023:* The American Control Conference (ACC) will take place in San Diego, May 31–June 2 and the European Control Conference (ECC) in Bucharest 13–16 June. The 22nd World Congress of the International Federation of Automatic Control (IFAC) will take place in Yokohama, Japan, 9–13 July. Finally, the Conference on Decision and Control (CDC) will take place in Singapore, Dec 13–15.

Upcoming opportunities

Interesting topics are being discussed daily at the department. Here are a few examples of recent topics that we would like to highlight.

- *Now is the time if you have thoughts about hosting an industrial postdoc!* First call for industrial postdocs financed by WASP is now open until April 7. An industrial postdoc is a person with a PhD who conducts industrially motivated research in the context of a collaboration between a company and a university research group. The industrial postdoc instrument is primarily aimed at recently graduated PhDs who are considering a career as an industry researcher or at PhDs who are already employed at a company and engaged in research tasks. The duration is two years and the industrial postdoc is 100% employed by the company. The total grant over two years is 2.2 Mkr, where 300 000 kr is dedicated to the university host for operational costs and 1.9 Mkr is dedicated to the company for partial funding of salary etc. For SMEs an additional amount is granted and the total grant over two years is 2.7 Mkr. Contact us now if you are interested to learn more. More information is available on the [homepage of WASP](#).

- *Interested in hosting an industrial PhD student?* Now is the time to apply for funding for WASP industrial PhD students – the call is open until April 7. This gives companies a chance to let a suitable employee become a WASP-funded PhD-student at our department. A win-win situation for our department, as well as your company. Contact us already now if you are interested to learn more. More information is available on the [homepage of WASP](#).

- *ELLIIT Tech Talks.* The strategic research

area ELLIIT has recently produced a series of videos about digitalization and societal challenges from an ICT perspective with Johan Wester as moderator. A new theme video will be published every other Tuesday until the 21st of March 2023. The latest release was on February 7 - Autonomous vehicles and robots; that will give an insight into learning that cars, boats and vacuum cleaners can now drive by themselves, but how do they really do it? What is it that makes a car know how to drive, and how do you beat a racing driver?? The videos are available from [ELLIIT](#) and YouTube.

- *Time for Nordic Powwow again!* In May 2019 AI Nordic Powwow filled Lundagård with 550 curious and knowledgeable AI interested persons. [AI Nordic Powwow](#) is now finally back on May 23! Also this time it is a collaboration between AI Lund and Skånemotor. AF-borgen is booked and we expect interesting, fascinating and mind-blowing talks and discussions. We aim for a joint track in the morning session followed by an afternoon with thematic tracks on topics such as Upgraded Humans, Cyber Security, A Perfect Society, Business or Production. Then we reshape into three tracks on what the AI development means for our organisations, for us as individuals or for geopolitics. Demos, posters etc in the pauses. Dinner and dance in the evening. Registration possible in March.



SPRINGTIME IS HERE !

Contact

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