



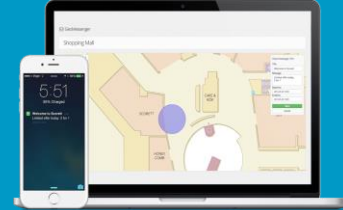
Linköping Center for Sensor Informatics and Control (LINK-SIC)

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A VINNOVA Competence Center

Welcome!
and
Update

Svante Gunnarsson
Center Director
Linköping University



Program

13.00: Welcome and LINK-SIC update. Svante Gunnarsson, LiU

13.15: Poster teaser.

13.30: New Licentiate theses during 2020. Fredrik Ljungberg, Erik Hedberg, and Robin Forsling, LiU

14.15: Break

14.30: Indoor Positioning for Office Applications. David Törnqvist, Senion

14.50: LINK-SIC after three years, opportunities and challenges

15.20: Closing (End of the official part of the workshop)

15.30: Board meeting and meeting with ISAB

Vision

The vision for LINK-SIC is to be an attractive and internationally competitive arena for industry-oriented research within Sensor Informatics and Control, contributing to growth and development of Swedish industry.

Since last year

- Licentiate theses by Frerik Ljungberg, Erik Hedberg (Dec 2), and Robin Forsling (early 2021).
- One new PhD student: Stefanie Zimmermann.
- Zoran Sjanic, Saab, Adjunct Associate Professor.
- Journal and conference papers.
- Three student projects in collaboration with the SMEs.
- Continued collaboration with organizations for female students. Inspiration seminar with participation from ABB, Scania and Saab.
- Area meeting for Mechanical manipulators at Newton Nordic.

Since last year (cont.)

- Related/spin-off projects: batteries, off-shore navigation, innovation,
- Two-year follow up by Vinnova + external review group.
- SG visited UFMG, Brazil in March to discuss collaboration.
- Consequences of the pandemic:
 - More difficult (impossible) to travel and visit companies for use of labs etc.
 - Conferences (e.g. IFAC World Congress, Fusion) in distance mode.
 - Higher workload for people involved in teaching.
 - Positive spin-off: On-line versions of several courses on Master's level. Discussions about how to make use of them initiated.
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Upcoming events

Workshop about reinforcement learning:

- Farnaz Adib Yaghmaie, Lennart Ljung,
- Theoretical background + hands-on activities
- Date TBD, Jan - March

Upcoming events (cont.)

Think tanks:

- Previous years:
 - Informal parallel discussions and exchange of ideas connected to the application areas.
- This year:
 - Informal discussions and exchange of ideas connected to the core competences.
 - Arranged in series, five Fridays, 13.00 – 14.00, during Dec and Jan.
 - Schedule:
 - Dec 4, Learning methods for control (Svante)
 - Dec 11, Sensor fusion (Fredrik G)
 - Dec 18, Control oriented physical modeling (Lars)
 - Jan 8, Data-driven modeling (Martin)
 - Jan 15, Optimization for control applications (Johan)
 - More information will be sent out later.

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More information can be found via ...

- <https://liu.se/en/research/link-sic>