

Electrical Engineering and Computer Science – Research & Impact



Figure: Collage with the 26 speakers at the EECS Research & Impact Day 2024.

*The school of Electrical Engineering and Computer Science EECS is the largest of the five schools at KTH both related to research and education. The research at EECS are performed in 15 Divisions and into the four Departments of; Computer Science, Electrical Engineering, Intelligent Systems and Human Centered Technology. There are several research centers and research infrastructures connected to the research and education. The Research & Impact Day is a new event, which targets all researchers at EECS and aims to highlight and share recent research, share knowledge on internal research infrastructures and labs, and inspire to new ideas and collaborations. For this year a special focus is on resilience, security and autonomous systems, and external guest will give an international outlook with focus on energy supply, storage, standards and security. Overall themes are sustainable developments and artificial intelligence (AI) – is AI a paradigm for research and developments? The event will be live at KTH Campus, F1, on **Monday 19th August**. Registration here: <https://www.kth.se/form/eecs-research-impact-day2024>*

Brief program overview

- Networking lunch and poster exhibiton (from 11.30)
- Introduction (start 13.00)
- Panel A *Global outlook - Resilient and Secure Society, Energy Supply and Standards*
- Panel B *Autonomous Systems, Wireless Communication, Social Competent Machines*
- Coffee break meet a new colleague and group pic (approx. 1410-1440)
- Panel C *Internet of Things, Networked Systems, Decision Control and Imaging Data*
- Panel D *Energy Efficient Computing, Electronics, Microsystems and Microwaves*
- Closure and Best Poster Award (end 16.00)

Program overview for the EECS Research & Impact Day 2024.

Introduction (13.00)

- Opening remark: Ann Lantz, Head of School EECS.
- Welcome note: Lina Bertling Tjernberg, Moderator and Deputy Head of School EECS.
- *Historical note on Computer Science, Electrical Engineering and Media Technology* by Leif Handberg Associate Professor in Media Technology.

Panel A Global outlook - Resilient and Secure Society, Energy Supply and Standards

- Bo Normark Industrial Strategy Executive EIT InnoEnergy
- Leila Manshaei Hitachi Energy Global Manager HVDC System Performance
- Viktoria Neimane Senior Vice President at Swedish National Grid
- Thomas Korsell Managing Director of SEK Svensk Elstandard
- Staffan Norrga, Associated Professor and funder of SCibreak KTH.
- David Olgart Director of Cybercampus Sweden KTH

Panel B Autonomous Systems and Wireless Communication and Social Competent Machines

- Danica Kragic Jensfelt Professor and Director of the centre for Autonomous System
- Emil Björnson Professor in Wireless Communication
- Marina Petrova Guest professor in Wireless Communication
- Bo Wahlberg Professor in Automatic Control and WASP KTH Director
- Jonas Beskow Professor in Speech, Music and Hearing

Coffee break, meet a new colleague, and poster session (approx.: 14.20-14.40)

Panel C Internet of Things, Networked Systems, Decision Control and Imaging Data

- Carlo Fischione, Professor in Internet of Things, KTH.
- Panos Papadimitratos, Professor Networked systems security, KTH.
- Dejan Kostic, Professor of Internetworking, KTH.
- Dimos V. Dimarogonas, Professor Division of Decision and Control Systems, KTH.
- Saikat Chatterjee, Associated Professor Information Science and Engineering, KTH.
- Lorenz Roth, Associated Professor in Space and Plasma Physics, KTH.





Panel D Energy Efficient Computing, Electronics, Microsystems and Microwaves

- Jörg Conradt, Associated Professor in Computational Science and Technology, KTH.
- Per-Erik Hellström, Director of the Semiconductor Research Centre KTH.
- Oscar Quevedo Teruel, Professor Director of the Antenna Laboratory, KTH.
- Joachim Oberhammer, Professor in Micro and Nanosystems, KTH.
- Patrick Norman, Director of PDC Center for High Performance Computing, KTH.
- Qianwen Xu, Associated Professor Director of KTH Intelligent Sustainable Grid Lab.

Closure and Best Poster Award

- Brief closing remark by Moderator
- Designing sound for sustainability by Sandra Pauletto Associate Professor Media technology and interaction design.
- Best Poster Award

Short Bio and pictures for the invited external guest speakers

	<p>Leila Manshaei is Global Manager of HVDC System Performance at Hitachi Energy. Previously she was Head of Power Consulting Sweden at Hitachi Energy. She completed a Master of Science in Electric Power Engineering at KTH Royal Institute of Technology in 2013.</p>
	<p>Viktoria Neimane is Senior Vice President at the Swedish National Grid, Svenska kraftnät, heading the department of Power system development. She has more than 20 years of experience in different fields of electricity business from several positions at Vattenfall. She has a Ph.D in Electrical Power Systems from the KTH Royal Institute of Technology.</p>
	<p>Bo Normark is Industrial Strategy Executive at EIT InnoEnergy. He is a legend in power grid technology, and a pioneer in smart electricity grids and battery systems. In 2021 he became honorary doctor at KTH Royal Institute of Technology</p>
	<p>Thomas Korsell is Managing Director of SEK Svensk Elstandard. He has a Master of Science in Electrical Engineering at KTH. SEK Svensk Elstandard is responsible for standardization in Sweden in the field of electrotechnology. The organization also coordinates Swedish participation in European and international standardization work as a member of the IEC and CENELEC.</p>