

# digital futures

NEWSLETTER MARCH 2024



## Knut och Alice Wallenbergs Stiftelse at the hub – a captivating peek into tomorrow's possibilities!

It was an exciting day at Digital Futures as we welcomed Knut och Alice Wallenbergs Stiftelse to Digital Futures. A round tour of inspiring presentations showcased groundbreaking research at KTH, delving into quantum-enhanced sensing and communication, wireless connectivity, predictive maintenance, nanoscale dynamics, and social media impact mitigation.

[More about KAW visit to Digital Futures](#)



## Register for Digital Futures Open Research Days on 18-19 April 2024!

The program will be just as great as last year – inspiration and knowledge sharing at its best, covering research project presentations, meeting with partners, panel discussions, networking and mingling. More information, program and registration on Digital Futures website...

[Digital Futures Open Research Days 2024](#)

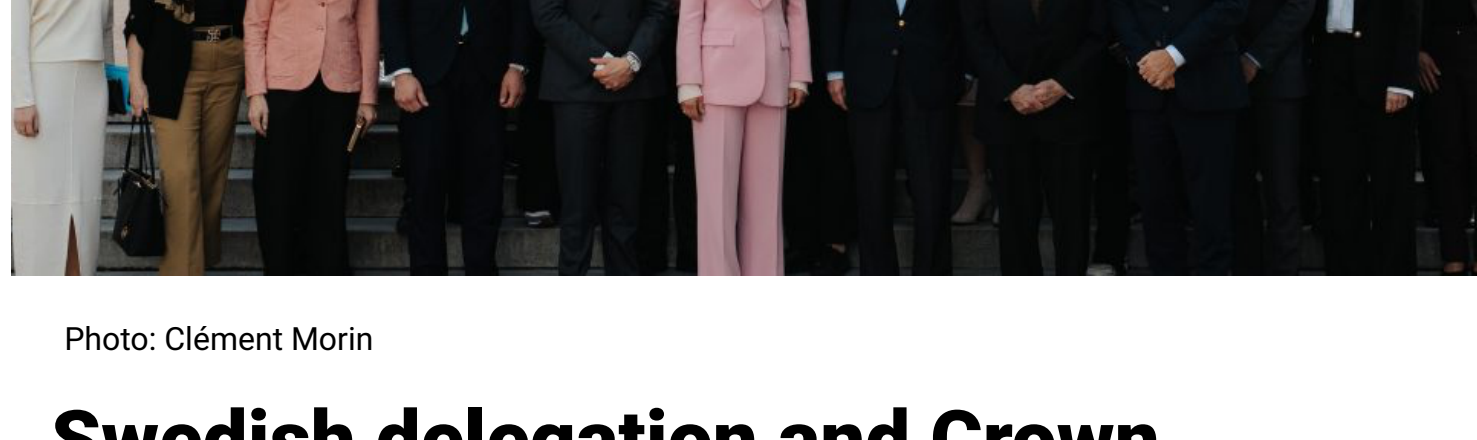


Photo: Clement Morin

## Swedish delegation and Crown Princess Couple explores AI collaboration in Silicon Valley

Karl Henrik Johansson, Director of Digital Futures, was part of a delegation from the Royal Swedish Academy of Engineering Sciences (IVA) that visited Silicon Valley from February 19 to 22. The delegation included DD.KK.HH., the Crown Princess, and Prince Daniel, aimed to strengthen cooperation opportunities between Silicon Valley and Sweden, focusing on strengthening Sweden's standing in digitization and artificial intelligence (AI).

[AI collaboration in Silicon Valley](#)



Photo: Unsplash

## Digital Futures announcing Call for Focus Period 2025

Digital Futures invites proposals from potential organizers for the Digital Futures Focus Period 2025, to take place in May/June 2025. The program is an ambitious 5-week guest researcher event designed to be an annual occurrence with a fresh topic each year.

- Deadline for proposals: May 10, 2024
- Focus period: 3-5 weeks, tentatively in May/June 2025

[Open call for Digital Futures Focus Period 2025](#)



## Four Digital Futures faculty members among Sweden's granted top researchers

Congratulations to our Digital Futures faculty members Karl H. Johansson, Dejan Kostic, Danica Kragic Jensfelt from KTH, and Erik Lindahl from Stockholm University.

[KAW Foundation grants top researchers](#)



## Announcing calls for ISPP Postdoc Projects, Industrial Innovation Projects and Societal Innovation Projects

**ISPP Postdoc projects** have a duration of 2 years and will be funded with a maximum of 500 kSEK/year per postdoc regarding Digital Futures funding. ISPP partners must fund the additional required funding per the proposed postdoc position. KTH, Stockholm University or RISE researchers can apply for funding under this call.

**Industrial Innovation Projects (IIPs)** can be at most 3 years and will be funded with a maximum of 4.5 MSEK overall in terms of Digital Futures funding. Digital Futures provides funding for ISPP project proposals based on the "fund matching" principle.

**Societal Innovation Projects (SIPs)** can be at most 2 years and will be funded with a maximum of 1 MSEK overall in terms of Digital Futures funding.

The proposal submission deadline is 3 June 2024.

[Open calls for ISPP Postdoc, IIPs and SIPs projects](#)



Gia Destouni

## Digital Futures Faculty Gia Destouni is again honoured...

Georgia (Gia) Destouni has now been elected as a corresponding member (applicable to Greek scientists active abroad) of the prestigious Academy of Athens in Greece.

– I am very happy and deeply honoured by this recognition, in my birth country, of my contributions to water and climate science, which have been increasingly and now largely based on digital transformation approaches and tools, says Gia Destouni.

[Gia Destouni](#)



Photo: Assistant Professor Qianwen Xu in her lab at the Department of Electric Power and Energy Systems, KTH Royal Institute of Technology (By David Callahan)

## AI-based self-control for each distributed energy source

Researchers at KTH have developed an open-source artificial intelligence (AI) solution to counter the challenges of integrating renewable energy and electric vehicles (EVs) in power grids.

The increasing reliance on variable sources like solar and wind, combined with the demand for charging EVs, creates voltage fluctuations and deviations, potentially leading to power grid failure.

According to Qianwen Xu, Assistant Professor at KTH and a member of the Digital Futures Faculty...

[AI-based self control](#)

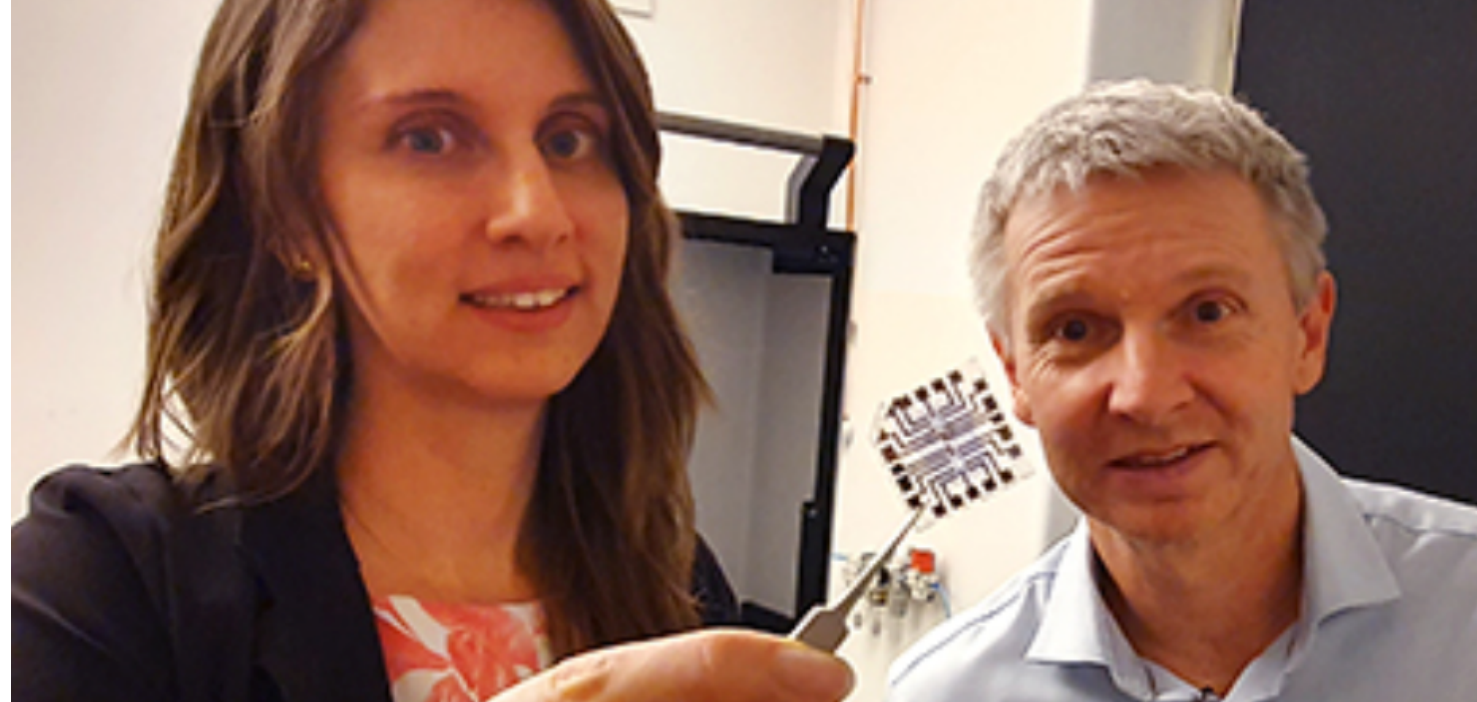


Photo: Erica Zeglio, left, with co-author KTH professor Frank Niklaus showing a finished transistor.

## Innovative technique bioelectronics and critical sensors prototyping

This novel method, reported in Advanced Science, is crucial in rapidly prototyping electrochemical transistors for applications such as medical implants, wearable electronics, and biosensors. The method can potentially substitute time-consuming processes that necessitate a costly cleanroom environment.

According to Erica Zeglio, co-author of the study and a faculty researcher affiliated with Digital Futures, it also avoids using solvents and developer baths, which typically contribute to a negative environmental impact.

[Innovative technique](#)

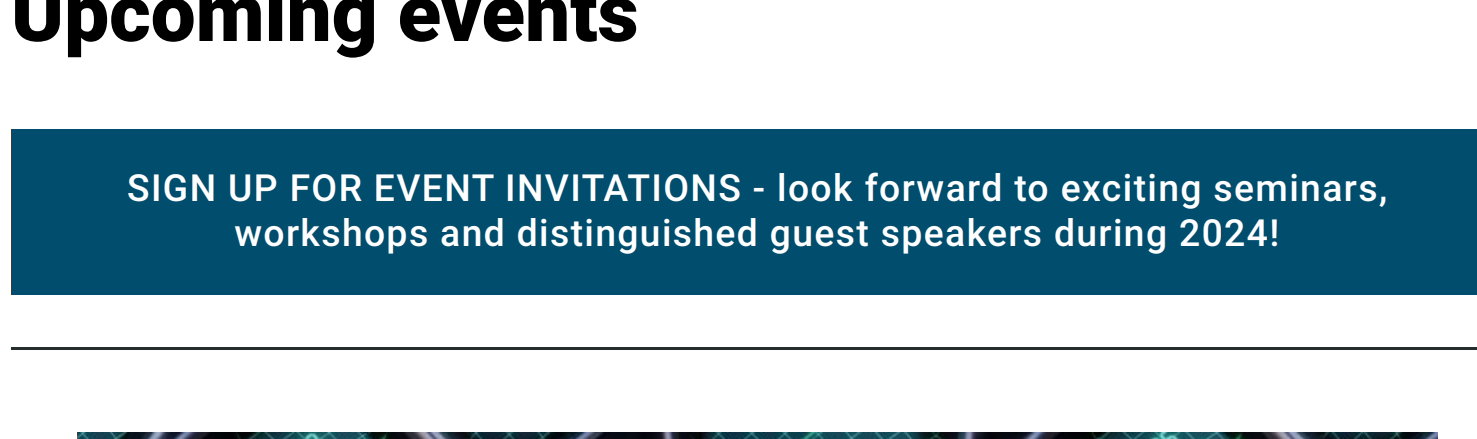


Photo: Unsplash

## Industry 5.0 workshop: Collaboration for a Circular Economy and Sustainable Community

**When:** 22 April 2024, 10:00 – 14:00 CEST  
**Where:** ONSITE at KTH D36 (Gamla styrelserummet), Lindstedtsvägen 9, KTH Campus, Stockholm

**Purpose of the workshop:**

- Review outcomes from previous workshops
- Address sector-specific challenges
- Enhance proposal and consortium development

**Register by 15 April - hurry up!**

**22**  
April

[More information & registration](#)

**19**  
April

[More information](#)

**The power and energy systems of the future – sustainable, digitalized and...?**

**When:** 19 April 2024, 13:00-15:00  
**Where:** Hybrid event at KTH Campus or online  
 Co-sponsored by Digital Futures

**25**  
April

[More information](#)

**Sjyst datalab and Certification for data-driven services with privacy in focus**

**When:** 25 April 2024, Open meeting 13:00 – 17:00 (Project partner meeting from 11.00.)  
**Where:** Drottning Kristinas väg 61, 114 28 Stockholm or online  
 Co-sponsored by Digital Futures and co-organized with TECOSA

In ARCHIVE RECORDED TALKS, you can watch most of our talks again.

[Subscribe to Digital Futures Youtube channel](#)

Digital Futures is a cross-disciplinary research center that explores and develops digital technologies. We bring solutions to future societal challenges, in Sweden and globally. We generate knowledge, innovations and future leaders of high industrial relevance and strategic importance.

Digital Futures is jointly established by KTH Royal Institute of Technology, Stockholm University and RISE Research Institutes of Sweden.

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