

digital futures

NEWSLETTER JANUARY 2024



SAVE THE DATE: Open Research Days 18-19 April 2024

Mark your calendars for Digital Futures Open Research Days! Stay tuned for more information, program and registration on Digital Futures website...

[SAVE THE DATE: Open Research Days 18-19 April 2024](#)

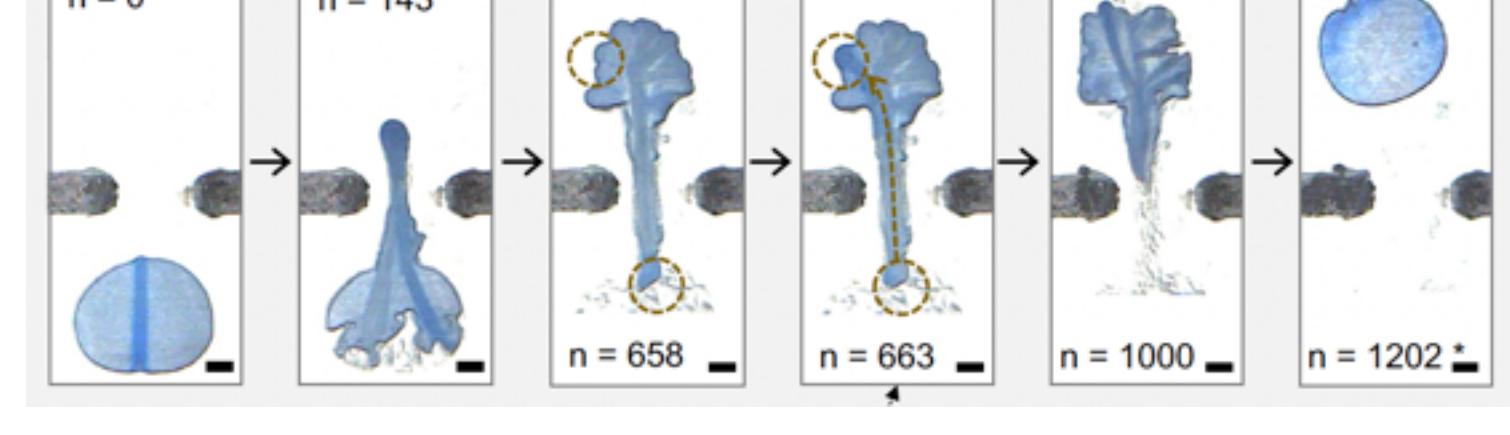


Photo: Fraisaeng/Mostphotos

AI can detect infection before it's too late!

Researchers from KTH, in collaboration with Neonatal care at Karolinska University Hospital, have developed an advanced AI system that can detect infections in patients, before conventional symptoms appear. The project "Explainable Machine Learning for Early Warning Systems" is funded by Digital Futures and led by Saikat Chatterjee, Associate Professor at KTH and member of Digital Futures Faculty.

[Find out more...](#)



Revolutionary breakthrough in Programmable Matter: Solid-liquid phase change pumping unleashes unprecedented shape-shifting abilities

In a groundbreaking study, Kerem Kaya and others in the team of Digital Futures researchers Danica Kragic and Wouter van der Wijngaert have unlocked the full potential of programmable matter by introducing a cutting-edge method called "solid-liquid phase change pumping." Overcoming limitations in existing approaches, this innovative technique allows for free-form transfiguration and autonomous movement of solid objects with sub-millimetre precision.

The study entitled "Programmable Matter with Free and High-resolution Transfiguration and Locomotion" (Article DOI: 10.1002/adfm.202307105) was published on 24 December 2023 in the high-impact journal Advanced Functional Materials.

[Revolutionary breakthrough in Programmable Matter...](#)



Ming Zhan



Bilge Mutlu

Guessing decoding for CRC is a new research field and has potential to be applied in future smart factory, says Ming Zhan

Meet Ming Zhan - Digital Futures Scholar-in-residence from August 2023 to March 2024, hosted by Ragnar Thobaben, Associate Professor at KTH and a member of the Digital Futures Faculty.

[Interview with Ming Zhan](#)

Scholar-in-residence Bilge Mutlu: Do the highest quality work you can, and others will see the value in your work!

Meet Bilge Mutlu - Digital Futures Scholar-in-residence from December 2023 to January 2024, hosted by Digital Futures faculty member Iolanda Leite.

[Interview with Bilge Mutlu](#)

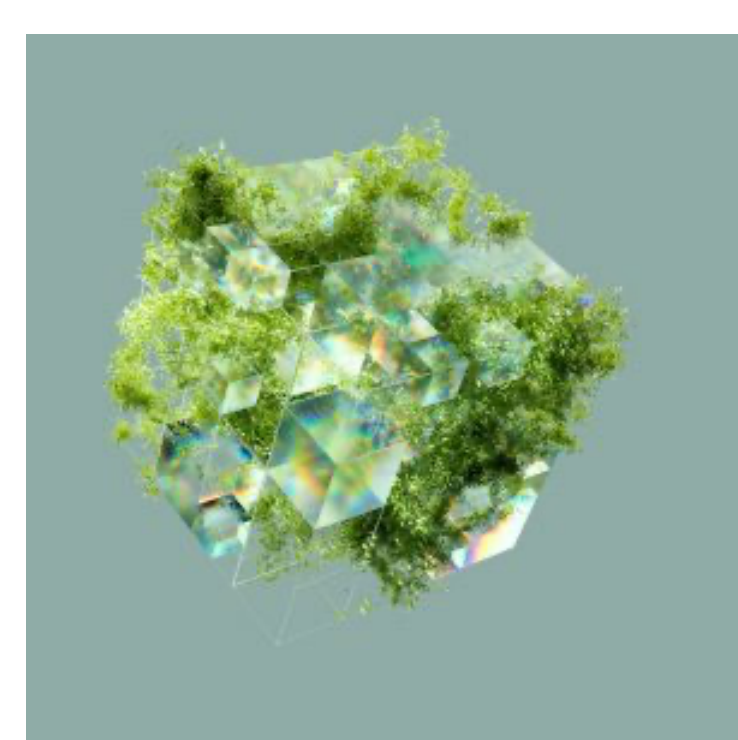


Photo: Unsplash

Book of Abstracts for International Conference on Digitalization and Artificial Intelligence in Agricultural Management 2023

Now you can DOWNLOAD the Book of Abstracts for the conference that aimed to address the challenges faced by the agricultural sector in feeding a growing global population with limited resources.

[Find out more...](#)

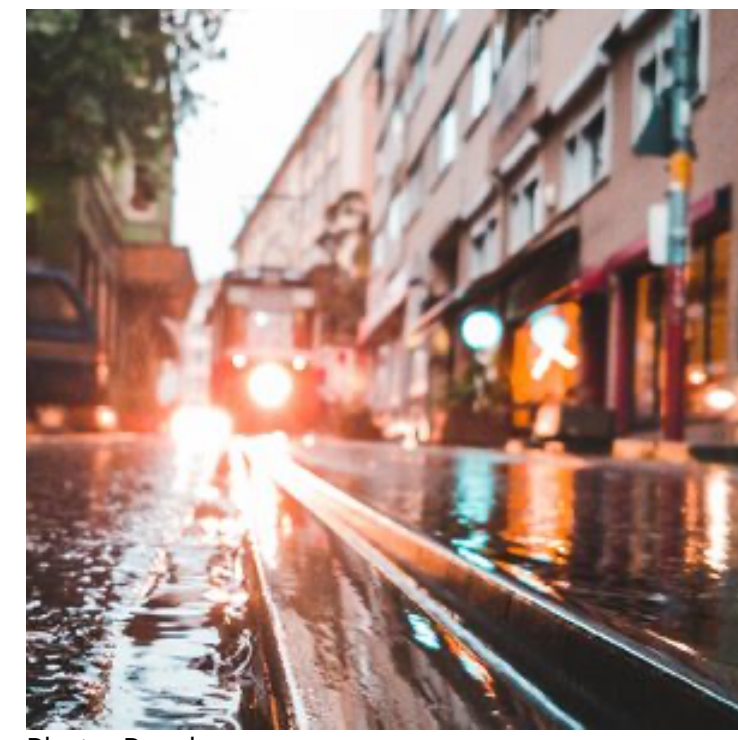


Photo: Pixels



Anna Furberg

Digital Futures project equipping Stockholm for extreme weather

The aim is to provide insights that can be applied citywide to various property owners facing increasing costs due to the climate crisis, says Christian Thomann, Associate Professor, INDEK, KTH and PI of the research project "Improving resilience: Using insurance data to design better loss prevention", funded by Digital Futures.

[Find out more...](#)

How to reduce your digital environmental and climate impact

In a recent article, "Så påverkar din internetanvändning miljö och klimat" (How to reduce your digital environmental and climate impact) for Internetkurskap Internetsförelsen, Digital Futures postdoc Anna Furberg talks about ways to reduce the environmental and climate impact of digital activities in everyday life.

[Article with Anna Furberg in Swedish](#)

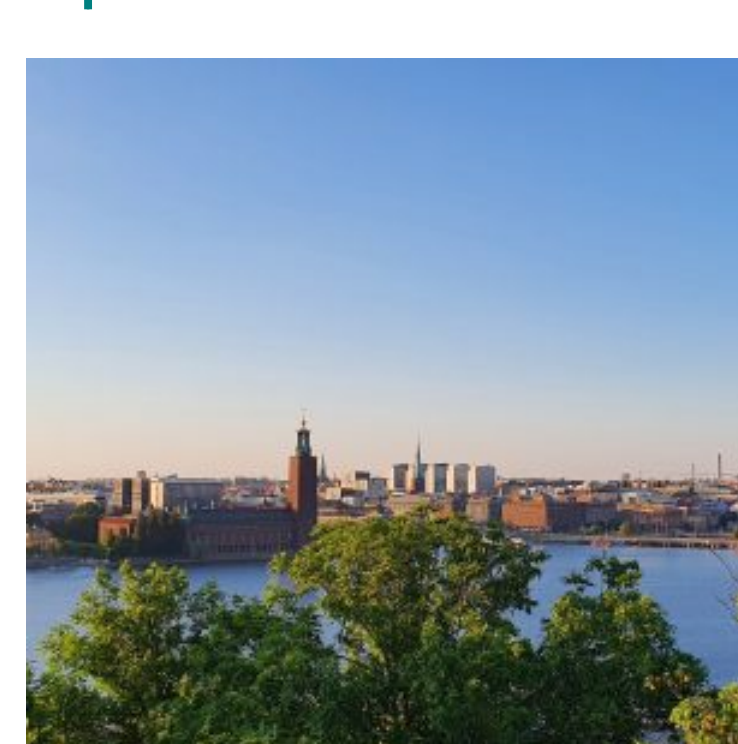


2nd Future of Ukraine, Powered by Region Stockholm, Stockholm, February 15-16

Key stakeholders gather to discuss innovations in AI, digital transformation, IT and data management in life science, healthcare, green energy, cybersecurity, urban development, and drones. Anna Kiefer, Executive Director Digital Futures, will talk about "Research and Innovation through Triple-Helix Collaboration"...

[Find out more...](#)

Open Calls



Open call: Digital Futures Summer Research Internship Programme (SRI)

The SRI programme is directed toward students on the bachelor's and master's levels (at KTH, Stockholm University or RISE), who will have the opportunity to conduct research under the guidance of researchers affiliated with Digital Futures. **Application deadline:** 1 March 2024

[Find out more on SRI Programme](#)



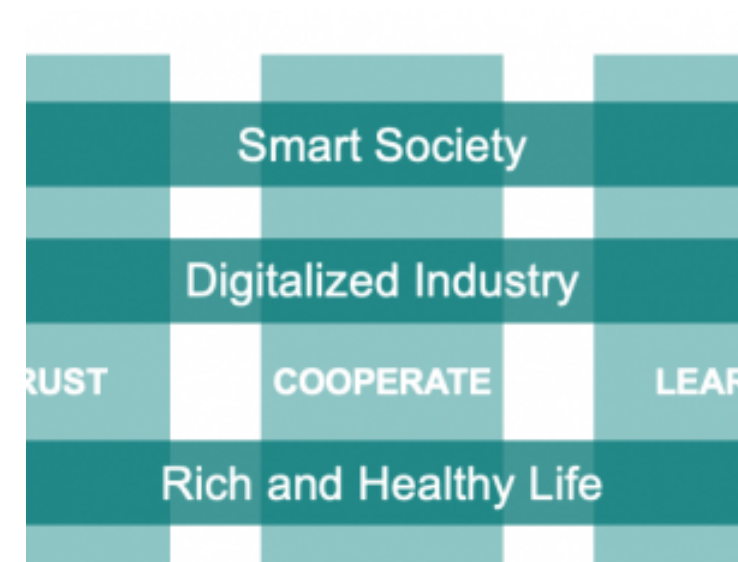
Photo: Unsplash

Open call: Scholar-in-Residence programme

Providing scholars at non-Swedish universities with financial support to enable short and longer-term visits to Digital Futures. How this time away from a home institution is used is flexible and for the scholar-in-residence to decide. Applications are possible every three months.

Next deadline: 4 March 2024

[Scholar-in-Residence programme](#)



Digital Futures Strategic Research Matrix

Open call: ISPP Mobility Grants

ISPP (Industrial and Societal Partnership Program) Mobility Grants are targeted at preparing/initiating new interactions between Digital Futures faculty and representatives of ISPP members. Applications are possible every three months.

Next deadline: 15 March 2024

[Open call: ISPP Mobility Grants](#)

Digital Futures seminars & workshops

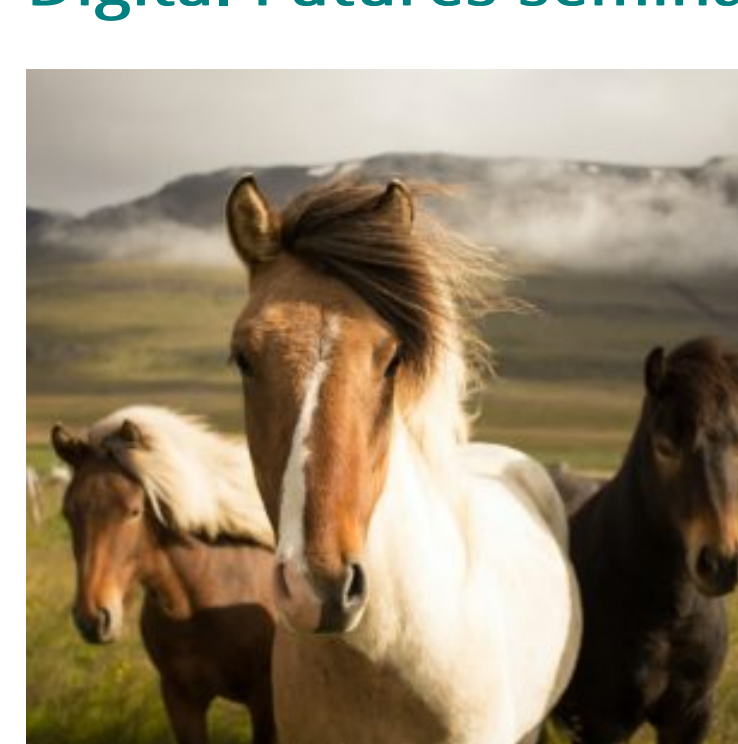


Photo: Unsplash

Workshop on Digital Solutions for Animal Science

When: 7 February 2024, 10:00-15:00
Where: Digital Futures hub
Interdisciplinary workshop, bringing together researchers in animal sciences from SLU and researchers in digitalization at KTH, Stockholm University and RISE.
Organizer: Hedvig Kjellström, Professor at KTH, Guest Professor at SLU, and Digital Futures Faculty.

[Workshop on Digital Solutions for Animal Science](#)

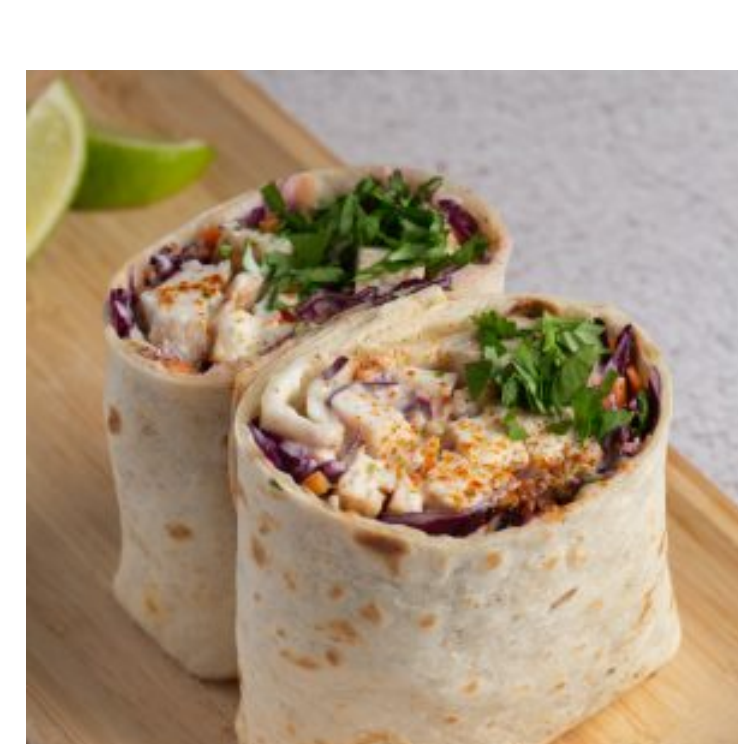


Photo: Unsplash

Digital Futures Lunch on 14 Feb, 2024

When: 14 Feb 2024, 12:00-13:00 CET
Where: Digital Futures hub
Registration is open for Digital Futures Faculty members only.
Digital Futures Faculty lunch is a great time to get together, enjoy a nice lunch, network and find out what's happening in the community...

[Digital Futures Faculty Lunch on 14 Feb, 2024](#)

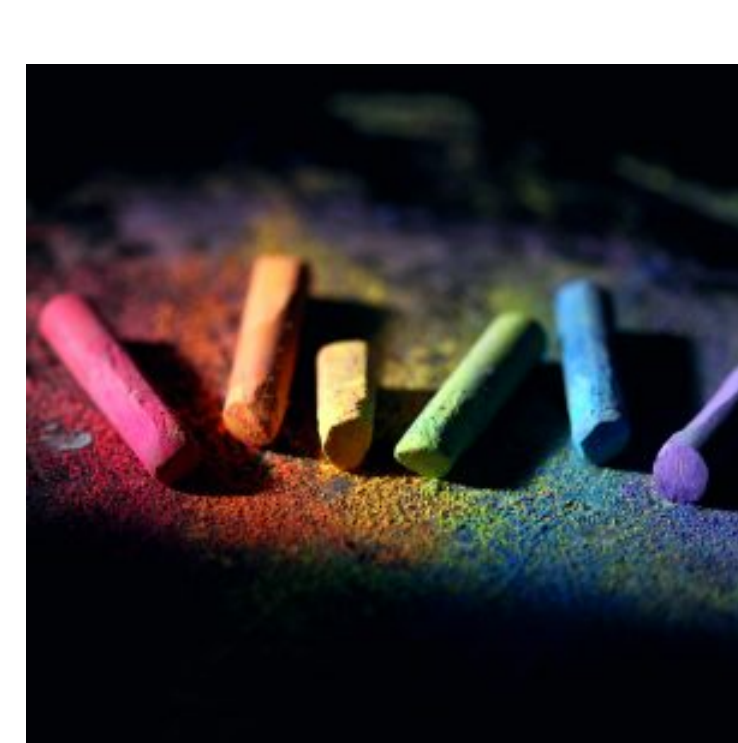
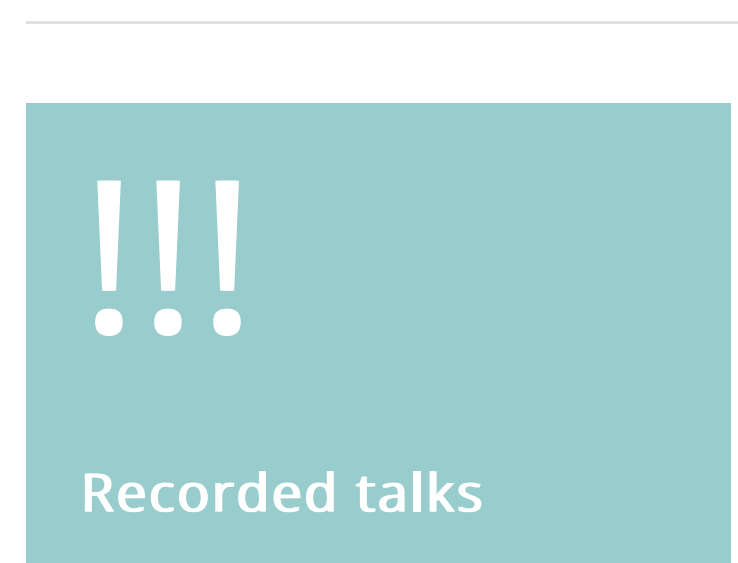


Photo: Unsplash

Digital Futures for Education: What is the impact of AI on university teaching and learning?

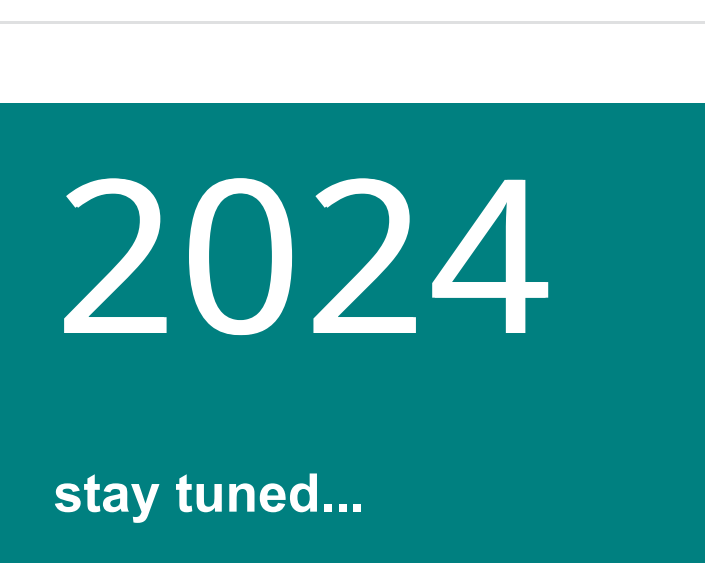
When: 6 March 2024, 13:00-14:30
Where: Digital Futures hub or Zoom
Moderator: Professor Arnold Pears, Unit of Learning in STEM at KTH
Speaker: Matti Tedre, Professor at the School of Computing, University of Eastern Finland

[Digital Futures for Education: What is the impact of AI on university teaching and learning?](#)



Archive – recorded talks
Did you miss any of all the great lectures, curtain talks, Fly-high Fika or Dive-deep lunch seminars?
Not to worry, in **Archive - recorded talks**, you can watch most of our talks again.

[Archive - recorded talks](#)



SIGN UP FOR INVITATIONS
Distinguished lectures, Curtain talks, Fly High and Dive Deep lunch seminars... Look forward to many more exciting seminars, workshops and distinguished guest speakers during 2024.

[Sign up for event invitations here](#)

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About us
Digital Futures is a cross-disciplinary research center that explores and develops digital technologies. We bring solutions to great 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.

www.digitalfutures.kth.se

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