

Our agenda

Wednesday, March 6, 2024

8:00 – 8:50AM Registration

8:55AM – 6:00PM **Moderation and Introduction** – Dr. Matthias Fürtsch
Welcome – Juergen Schmidt

Keynote address: AI methods in semiconductor manufacturing – Prof. Dr. Kai Furmans

Technical session 1: Reinforcement learning in a simulation of semiconductor fab – Dr. Jasper van Heugten

Insights into Bosch: Demonstrators - internal semiconductor and sensor experts

Technical session 2: The role of AI in knowledge-enhanced process models for semiconductor manufacturing – Dr. Jan Langer

Technical session 3: AI methods in optics – Dr. Peter Meszmer

Company presentation & career panel: Work #LikeABosch – Nina Muncke & Dr. Matthias Werner

Panel discussion: The role of AI in future jobs. How are the universities addressing this challenge? – Moderation: Dr. Alexandru Prisacaru & Dr. Martina Wisniewski

6:00PM **Networking dinner**

Thursday, March 7, 2024

8:55AM – 5:00PM **Introduction day 2** – Dr. Peter Wolfangel

Keynote address: Domain adaptation and hybrid algorithms fusing physics-based and deep learning algorithms for fault diagnostics and prognostics – Prof. Dr. Olga Fink

Fab visit: Join us for an inspiring tour through the world of semiconductors

Technical session: AI methods in MEMS sensor engineering – Dr. Stefan Leidich

Working session: Tutorial on scientific writing: How to write a research paper – Prof. Dr. Andreas Theissler

Poster session: Scientific work of participants

Closing remarks and awards – Dr. Matthias Fürtsch

The speakers

Juergen Schmidt
VP Semiconductor Frontend Reutlingen

Prof. Dr.-Ing. Kai Furmans
Institute of Material Handling Systems and Logistics
Karlsruhe Institute of Technology

Dr. Jasper van Heugten
Chief Technology Officer
Minds.ai

Dr. Jan Langer
Fraunhofer-Institut für
Elektronische Nanosysteme ENAS

Dr. Peter Meszmer
Materials and Reliability of Microtechnical Systems
TU Chemnitz

Dr. Peter Wolfangel
Member of the Executive Board - Responsibility for
the business area semiconductor components

Prof. Dr. Olga Fink
Intelligent Maintenance and Operations Systems
EPFL

Dr. Stefan Leidich
Engineering Advanced Sensor Concepts
Robert Bosch GmbH

Prof. Dr. Andreas Theissler
Machine Learning and Human-Centered AI
Hochschule Aalen



Bosch Spring School on AI in industry

Visit us in Reutlingen to get a deep insight into a fascinating technology and discover more about Bosch's innovative semiconductor technology during the two-day Bosch European Spring School.

We look forward to welcoming you!

Invented for life



What is the Bosch Spring School?

Embark on a journey at the forefront of the European microelectronics industry! The Bosch Spring School is your gateway to exploring the exciting realms of machine learning and artificial intelligence in an industrial context. Dive into the world of optimization, where these key technologies play a pivotal role in enhancing productivity, efficiency, and the quality of goods produced.

Why Attend?

The Important Project of Common European Interest (IPCEI) has brought together industry leaders and academic experts to showcase their groundbreaking work in industrial AI and automation, with a special focus on semiconductor manufacturing. Join us and stay ahead in the game!

What's in Store for You?

Networking: Connect with Bosch employees, managers, and a diverse group of international participants.
Live Demonstrations: Explore real-life AI applications within our highly automated 200 mm semiconductor front end production environment.
Cutting-edge Facilities: Tour our state-of-the-art test center for semiconductor components.

Showcase Your Research!

Showcase your PhD research in the fields of industrial AI, semiconductors, or sensors through our poster session. Impress our panel of judges, and you could walk away with the highly coveted Poster Award.

Save Your Spot!

Register now to secure your spot at the Bosch Spring School and be part of a transformative experience!



Bosch Spring School is the place to be

- if you are a student with bachelor's degree, Ph.D. student or a professor working in the field of the STEM subjects (science, technology, engineering, mathematics)
- or if you are a scientist or engineer working at a technology company
- if you have a high interest on industrial artificial intelligence
- if you enjoy tackling complex technical topics and would like to have an opportunity to talk to and learn from leading experts about AI in industry

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Apply now to secure your spot!

For your application use our QR code of the applicant portal below. On our webpage you can find further information.

Submit your application:

- Students with a bachelor's degree, professionals and PhD students should send a CV and a short motivation letter
- PhD students are encouraged to send a poster proposal. This is not mandatory but will support your application. The best posters will be presented by the PhD students during our poster session. Here you can even win an award!

The number of participants at the Spring School is limited to 50 people. Detailed information on the agenda and travel will be provided to admitted attendees well in advance.

Contact for questions:

Michelle Kurz – Michelle.Kurz@de.bosch.com



Applicant portal



Webpage

