

About UPLINX

The German Research Center for Artificial Intelligence DFKI is the leading research institute in Germany in the field of innovative software technologies based on artificial intelligence methods. It has research facilities in Kaiserslautern, Saarbrücken and Bremen and has a project office in Berlin, and branch offices in Osnabrück and St. Wendel.

The Machine Learning Schools and Workshops at the DFKI locations offer courses for students, (post-) doctoral students as well as for specialists and executives from the industry. This includes workshops with lectures and practical implementation tasks in the subject areas of the respective DFKI location. The necessary basics are imparted during the theoretical introduction, which enable the participants to carry out the practical exercises and get to know the methods of machine learning in the long term. The industry workshops are direct and individual qualification and further training measures for specialists and managers and are oriented towards then needs of companies.

In the Industry Workshop, the content of the Machine Learning School is condensed and specifically expanded to include the needs of the participants. Registered industry participants will be addressed by the contact persons of the locations directly after registration.

Thanks to funding from the Federal Ministry of Economics and Energy (BMWi), participation in UPLINX events is free of charge.

Places are limited.
We therefore ask for early registration.



Supported by:



UPLINX

Machine Learning School

October 9 - 11, 2019
Saarbrücken
Germany

A three-day event primarily aims at students
(Master, PhD) and postdoctoral researchers

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Information

The UPLINX Saarbruecken Machine Learning School (MLS) offers lectures and tutored practical group exercises on selected methods of machine learning, with focus on deep learning, and their application in different fields such as gesture recognition, motion synthesis, defect detection, and pedestrian-safe autonomous driving.

The MLS is aimed at students (Master, PhD) and postdoctoral researchers of computer science who ideally have solid knowledge of AI in general, and machine learning in particular.

Lectures and practical exercises are given in English.

The number of participants is strictly limited to 50.

Participation in the MLS is **free of charge**. Registration includes coffee breaks and lunch (buffet) on all days of the event.

Further information and registration:

 www.dfki.de/saarbruecken/machine-learning-school

Contact:

✉ Michael.Feld@dfki.de
✉ Matthias.Klusch@dfki.de



Location/Room:

Lectures: DFKI New Building, Room R - 1.63 VisRoom
Exercises: DFKI Main Building, Room R - 2.17 "Reuse"

Looking for a complementary event?

Check also our next UPLINX Workshop
Machine Learning in Industry in Kaiserslautern
(Oct 21+22, 2019)

Further information and registration:
www.dfki.de/kaiserslautern/machine-learning-workshop



Program

Wednesday, 9.10.

- 9:30 - 10 am** **Welcome**
- 10 - 11 am** **Lecture 1** (*Guillermo Reyes*):
Application of CNNs in Gesture Recognition
- 11 - 12 pm** **Lecture 2** (*Tim Dahmen*):
Deep Learning with Synthetic Data for Defect Detection
- 12 - 1:30 pm** **Lunch break**
- 1:30 - 4:30 pm** **Practical Exercises 1:**
Deep Neural Networks for Distracted Driver Detection
(with flexible coffee break)

Thursday, 10.10.

- 10 - 11 am** **Lecture 3** (*Matthias Klusch*):
Hybrid Learning and Planning for Safer Self-Driving Cars
- 11 - 12 pm** **Lecture 4** (*Klaus Fischer*):
Motion Synthesis for Virtual Characters
- 12 - 1:30 pm** **Lunch break**
- 1:30 - 4:30 pm** **Practical Exercises 2:**
Deep Neural Networks for Motion Modeling and Synthesis
(with flexible coffee break)

Friday, 11.10.

- 10. - 11 am** **Lecture 5** (*Michael Barz*):
Applications of Machine Learning in Gaze-Based Interactions
- 11 - 12 pm** **Lecture 6** (*Boris Brandherm*):
Machine Learning for Energy Data Analysis and AR Visualization
- 12 - 1:30 pm** **Lunch break**
- 1:30 - 4:30 pm** **Results Presentation**
of Practical Exercises by Groups
(with flexible coffee break)
- 4:30 - 5 pm** **Closing**