Computer vision is a very active research field, having both theoretical and practical importance. The goal of computer vision is to enable machines to process, analyze and interpret visual data acquired with cameras and other sensors.

This year’s seminar mainly focuses on machine learning in the vision domain. What are the special characteristics of image data? What does it mean to understand an image? Which priors are especially suited for visual perception systems? To answer this questions we will have a look at some of the most interesting papers in the area, published in leading conferences and journals.

Participants will get an overview of the state-of-the-art methods in the field, learn to read and understand research papers in this area, as well as improve their presentation and analytical skills.

Every participant will give a presentation on one topic, prepare a written report and review the work of other students. Additionally, you are required to attend the presentations of other students and participate in the subsequent discussions.

The seminar will be offered in English. Prior knowledge in computer vision or machine learning is not mandatory, but is highly recommended. A good background in mathematics is recommended as well. There is a maximum number of participants: if more students are interested in the course, places are assigned randomly.

The introductory meeting will take place

**on 11th April 2019**
**at 12:00 o’clock**
in room MAR 6.051.

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Information: available on ISIS: [HTCV – SE, [SoSe19]](https://xkcd.com/1425/)