Pattern Analysis Joint Meeting
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Worksheet 1: Tuesday April 20 / Friday April 23 2021

Please watch the video prior to the lecture, and think about the questions below. In the joint meeting, you will have 15 minutes time to discuss the questions with your group. Afterwards, we will jointly discuss your solution proposals.

You can print this sheet and use the space below for your notes.

Task 1: Values of a PDF

Which two properties must the value range of a probability density function (PDF) satisfy?

$p(x) \geq 0$

$\int_{-\infty}^{\infty} p(x)\,dx = 1$

Task 2: A Tiny Sampling Pitfall

The lecture states that the presented sampling algorithm can operate on **arbitrary** PDFs. However, there might be a subtle pitfall in the actual **implementation** of the algorithm on very special PDFs.

What could go wrong?

Task 3: Lecture Information Processing

Let us "calibrate" the lecture content with your perception.

What do you think: which specific pieces of the lecture are relevant for the examination, and which specific roles do the other parts play?

name of probability.