
PROBABILISTIC AND DIFFERENTIABLE PROGRAMMING

V0: ORGANIZATION

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What this course is about

Differentiable Programming and Probabilistic Programming for Machine Learning¹⁾

1) Yes, this is a footnote on a slide, believe it or not. The three lines summarizing the topic of the course is the optimal outcome w.r.t my subjective measure - using a non-gradient optimization procedure starting from the original course name: Probabilistic Differential Programming -> Probabilistic and Differential Programming -> Probabilistic and Differentiable Programming -> Differentiable and Probabilistic Programming



Course

- Aktuelle Themen Data Science und KI: Probabilistic Differential Programming (CS5070/CS5071)
- Lecture with seminaristic parts
- All relevant information also given in Moodle website of this course

<https://moodle.uni-luebeck.de/course/view.php?id=7029>

Lecture

- **Slides and recordings**
 - in Moodle asynchronously (mainly from previous semester)
- **Specifica**
 - Time: Wednesdays 16:00-17:30
 - Start: 20.10 Lecture V0 (this one on organization)
27.10 Lecture V1 (Intro, Motivation, Overview)
 - Room: Seminarraum Informatik 4, Minsky
 - Modus
 - Short recap of contents of slides/recording
 - Further Examples
 - Inverted classroom: You ask and I ask
 - Content: Differentiable programming (and deep learning), probabilistic modelling and programming -> **V1**

Seminar

- Part of lecture
- Time: Wednesday 16:00-17:30
- You have to actively participate in asking questions and answering questions on lecture contents

Oral exam

- End of the semester
 - Date to be specified yet
- Prerequisite: Successful participation in inverted class room
- About 30 minutes on all topics of lecture
- But at the beginning of the exam I will ask you what your favourite topic is