PROBABILISTIC AND DIFFERENTIABLE PROGRAMMING

V0: ORGANIZATION

Özgür L. Özçep
Universität zu Lübeck
Institut für Informationssysteme

What this course is about

Differentiable Programming and Probabilistic Programming for Machine Learning[1)]

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 optimziation 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 + seminar

- All relevant information also given in Moodle website of this course

  https://moodle.uni-luebeck.de/course/view.php?id=5742

Lecture

- **Slides and recordings**
  - in Moodle asynchronously (one week before)
- **Lecture Slot**
  - Wednesdays 16:00-17:30
  - Short recap of contents of slides/recording
  - Inverted classroom
  - **Start**: 21.10 Lecture V0 (this one on organization)
    27.10 Lecture V1 (Intro, Motivation, Overview)
- Content
  - Differentiable programming (and deep learning), probabilistic modelling and programming
  - See slides of V1

Seminar

- Block seminar
- Prediscussion (online): 28. October, 17:45-18:30
- Presentations (offline)
  - Seminarraum Informatik 2/3, Cook/Karp)
  - Date: 17.02.2021, 10:00-18:00 Uhr
  - QA in preparation for talk (online, P2P2)
    - 20.01.2021, 17:45-18:30 h
    - 27.01.2021, 17:45-18:30 h
    - 03.02.2021, 17:45-18:30 h
- Choose paper to present in Moodle

Oral exam

- End of the semester
- Prerequisite: Succesful presentation in seminar
- About 30 minutes on topics of lecture