

Advanced Machine Learning

Spring 2019

Prof. Pierre Geurts
p.geurts@uliege.be

Prof. Gilles Louppe
g.louppe@uliege.be

To know, read; to learn, write; to master, teach.

(Hindu proverb)

Logistics

This course is given by:

- Prof. Pierre Geurts (p.geurts@uliege.be)
- Prof. Gilles Louppe (g.louppe@uliege.be)
- Researchers from the department
- ... and you!



Lectures

- This course is organized as a **journal club**.
- Reading and presentation of recent machine learning research papers.
- Every week, one of us will:
 - select a research paper,
 - introduce the necessary background,
 - present the paper,
 - discuss and criticize its content.
- Goal: training for research and development in machine learning.

Materials

Papers and slides are available at github.com/glouppe/info8004-advanced-machine-learning.

- In HTML and in PDFs.
- Posted online the day before the lesson (hopefully).

Outline

(Tentative and subject to change!)

- Lecture 1: Pierre Geurts
- Lecture 2: Gilles Louppe
- Lecture 3: Antonio Sutera, Van Anh Huynh-Thu
- Lecture 4: Pierre Geurts
- Lecture 5: Gilles Louppe
- Lecture 6: Romain Mormont, Joeri Hermans
- Lecture 7: Matthia Sabatelli, Raphael Fontenau
- Lecture 8: Student presentations 1
- Lecture 9: Student presentations 2
- Lecture 10: Student presentations 3

Reading and presentation assignment

- Read a selected machine learning paper.
- Prepare a 40-minute lecture, covering the necessary background and discussing the paper.
- Short summary report.

More details to be announced later.

Evaluation

- Exam (60%)
- Reading and presentation assignment (40%)

