

COURSE DETAIL

APPLIED MACHINE LEARNING- THEORY

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

120

UCEAP Course Suffix

B

UCEAP Official Title

APPLIED MACHINE LEARNING- THEORY

UCEAP Transcript Title

APPLD MACHINE:THEORY

UCEAP Quarter Units

2.50

UCEAP Semester Units

1.70

Course Description

This course provides an introduction to several subdomains of machine learning and gives an orientation to fundamental methods and algorithms within these domains. The following topics are covered: basic knowledge concerning theories and methods related to the following subdomains; unsupervised and supervised learning, classification, and regression; neural networks, including convolutional neural networks, recurrent neural networks and deep learning; Bayesian learning; reinforcement learning; support vector machines, decision trees, random forests, ensemble methods; hardware and software architectures for machine learning, parallelisation, use of GPUs.

Language(s) of Instruction

English

Host Institution Course Number

EDAN95

Host Institution Course Title

APPLIED MACHINE LEARNING- THEORY

Host Institution Campus

Engineering

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering- Computer Science

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