COURSE DETAIL

COGNITIVE ALGORITHMS

Country
Germany

Host Institution
Technical University Berlin

Program(s)
Technical University Berlin

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
102

UCEAP Course Suffix

UCEAP Official Title
COGNITIVE ALGORITHMS

UCEAP Transcript Title
COGNITIVE ALGORTHMS

UCEAP Quarter Units
5.50

UCEAP Semester Units
3.70

Course Description

The lecture covers elementary concepts in machine learning and their application on real data with a special focus on methods that are simple to implement. The course alternates lectures and practice sessions. In the practice sessions, students implement and apply machine learning algorithms on real data in Python. Topics include: supervised learning (linear regression techniques, linear classification, kernel based regression), unsupervised learning (principal component analysis, clustering), and model selection.

Language(s) of Instruction
English

Host Institution Course Number
0434 L 502

Host Institution Course Title
COGNITIVE ALGORITHMS

Host Institution Campus
FAKULTÄT IV ELEKTROTECHNIK UND INFORMATIK

Host Institution Faculty

Host Institution Degree

Host Institution Department
Institut für Softwaretechnik und Theoretische Informatik

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