

COURSE DETAIL

NATURAL LANGUAGE PROCESSING

Country

China

Host Institution

Tsinghua University

Program(s)

Tsinghua University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

163

UCEAP Course Suffix**UCEAP Official Title**

NATURAL LANGUAGE PROCESSING

UCEAP Transcript Title

NATURAL LANG PROCES

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

Natural language Processing (NLP) is one of the most important technologies in Artificial Intelligence. NLP aims at enabling computers to understand human languages and communicate with humans. There are a large variety of tasks and machine learning methods in NLP. The course provides a thorough introduction to NLP, from its history to recent advances in deep learning applied to NLP. On the task side, we will cover sequence tagging, parsing, classification and clustering, and some applications such as machine translation. On the model side, we will cover statistical models and neural networks. By learning from lectures and programming assignments, students will master necessary knowledge about NLP and engineering tricks for practical NLP problem.

Language(s) of Instruction

English

Host Institution Course Number

80240763

Host Institution Course Title

NATURAL LANGUAGE PROCESSING

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Department of Computer Science and Technology

Course Last Reviewed

2023-2024

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