COURSE DETAIL

INTRODUCTION TO ARTIFICIAL INTELLIGENCE
Country China
Host Institution Fudan University
Program(s) Fudan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 128
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO ARTIFICIAL INTELLIGENCE
UCEAP Transcript Title INTRO TO AI
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course is a core course in the field of computer science. The focus of the course is to introduce students to the basic knowledge and algorithms in the field of artificial intelligence, and guide them to use artificial intelligence models to solve real-world problems in the era of big data through practical projects in the course.

Brief Introduction to the Course Content: The content of this course mainly covers several basic modules in the field of artificial intelligence, from simple to complex, gradually explaining the principles and techniques used by intelligent agents to solve real-world problems. Specific content includes: search algorithms (basic search algorithms for trees and graphs, etc.), Markov decision processes (Markov models, etc.), game algorithms (Alpha-Beta pruning techniques, etc.), uncertain information reasoning methods (Bayesian models), and knowledge representation methods (first-order, higher-order, and semantic representations, etc.). Through the combination of course practice, students will be provided with means and methods to solve real-world big data problems.

This course requires students to have the ability to write simple programs using Python or be able to quickly grasp the use of Python. Prerequisites for the course are computer data structures and foundations of probability theory. By studying this course, students will understand some core issues and applications in the field of artificial intelligence, and master the relevant principles and algorithms. In addition, students will acquire the ability to write, maintain, and test Python language, and be able to use Python to solve real-world problems.

Language(s) of Instruction
Chinese

Host Institution Course Number
DATA130008

Host Institution Course Title
INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Host Institution Course Details

Host Institution Campus

Host Institution Faculty
Zongyu WEI

Host Institution Degree

Host Institution Department
School of Data Science

Course Last Reviewed
2023-2024

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