COURSE DETAIL

ARTIFICIAL INTELLIGENCE

Country
Italy

Host Institution
University of Padua

Program(s)
Psychology and Cognitive Science, Padua

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
151

UCEAP Course Suffix

UCEAP Official Title
ARTIFICIAL INTELLIGENCE

UCEAP Transcript Title
ARTIFICL INTELLGNCE

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description

This course examines the fundamental techniques of some significant approaches within Artificial Intelligence (AI) for the solution of difficult problems. In particular, the course discusses local research techniques in a space of solutions, systems with constraints, soft constraints, planning techniques, representation and manipulation of knowledge with and without uncertainty, decision theory, reasoning techniques with preferences, and aggregation of preferences in a multi-agent context. The structure and the topics of the course is as follows: problem resolution, and local search algorithms; constraint-based systems and soft constraints; preference reasoning and preference aggregation in multi-agent systems; decision theory; treatment of uncertainty and probabilistic reasoning; planning; and artificial intelligence in society. The course recommends students have basic knowledge of programming and algorithms as a prerequisite.

Language(s) of Instruction
English

Host Institution Course Number
INQ0091562

Host Institution Course Title
ARTIFICIAL INTELLIGENCE

Host Institution Course Details
https://en.didattica.unipd.it/off/2022/LM/IN/IN2547/001PD/INQ0091562/N0

Host Institution Campus

Host Institution Faculty
Engineering

Host Institution Degree
Second Cycle Degree in Computer Engineering

Host Institution Department

Course Last Reviewed

2022-2023

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