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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