COURSE DETAIL

CONNECTIONIST COMPUTING
Country Ireland
Host Institution University College Dublin
Program(s) University College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 128
UCEAP Course Suffix
UCEAP Official Title CONNECTIONIST COMPUTING
UCEAP Transcript Title CONNECTIONST CMPTNG
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

There are two distinct parts to this course. The first few lectures provide students with a general overview of connectionism: its origins as an attempt to model the functioning of the brain, and the various classes of algorithms created starting from these foundations. The second part focuses on the last 10-15 years. The course provides a general framework for designing machine learning models that deal with complex structured data, introduces graphical models and Bayesian networks, and describes inference and learning algorithms for them. The course also addresses the case of neural networks, i.e. to describe possible strategies for effectively training them in real-world scenarios.

Language(s) of Instruction
English

Host Institution Course Number
COMP30230

Host Institution Course Title
CONNECTIONIST COMPUTING

Host Institution Course Details
https://hub.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=COMP30230&ARCH...

Host Institution Campus

Host Institution Faculty
Computer Science

Host Institution Degree

Host Institution Department

Course Last Reviewed
2025-2026

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