COURSE DETAIL

CLOUD COMPUTING FOR HIGH DIMENSIONAL DATA
Country Taiwan
Host Institution National Taiwan University
Program(s) National Taiwan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 123
UCEAP Course Suffix
UCEAP Official Title CLOUD COMPUTING FOR HIGH DIMENSIONAL DATA
UCEAP Transcript Title CLOUD COMP HDD
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course offers practical training in data science, focusing on high-dimensional data computing and dimension reduction algorithms. The characteristics of this course are the hands-on experience with high-performance computers and the observation of real data from a statistical perspective. Practical exercises will be conducted on high performance GPU servers on the cloud, possibly utilizing resources such as the NVIDIA V100 from our NTU or Google Colab. In addition to the hands-on exercises, statistical theories related to dimension reduction algorithms, data visualization, and data interpretation are introduced. The Python programming skills are taught during the first month as part of a combined and quick recap course. The course is taught in English, but bilingual Q&A sessions are acceptable.

Language(s) of Instruction
English

Host Institution Course Number
IMPS5010

Host Institution Course Title
CLOUD COMPUTING FOR HIGH DIMENSIONAL DATA

Host Institution Course Details
https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=H41%20U0120&c...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Statistics

Course Last Reviewed

2024-2025

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