COURSE DETAIL

MULTICORE AND GPU PROGRAMMING

Country
Korea, South

Host Institution
Yonsei University

Program(s)
Yonsei University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
125

UCEAP Course Suffix

UCEAP Official Title
MULTICORE AND GPU PROGRAMMING

UCEAP Transcript Title
MULTICORE &GPU PROG

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description

This course covers various aspects of multi-core programming. Topics include programming models for multi-threading (Pthread), GPUs (CUDA), and the theoretical backgrounds behind them. Students also implement and optimize various emerging applications such as matrix multiplication, reduction, and deep learning kernels.

Language(s) of Instruction
English

Host Institution Course Number
CSI4119

Host Institution Course Title
MULTICORE AND GPU PROGRAMMING

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computer Science

Course Last Reviewed
2022-2023

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