COURSE DETAIL

DISTRIBUTED AND PARALLEL COMPUTING

Country
Hong Kong

Host Institution
University of Hong Kong

Program(s)
University of Hong Kong

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
140

UCEAP Course Suffix

UCEAP Official Title
DISTRIBUTED AND PARALLEL COMPUTING

UCEAP Transcript Title
DIST& PARALLEL COMP

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description

This course examines the basic concepts and modern software architectures on distributed and parallel computing. Topics include: computer network primitives, distributed transactions and two-phase commits, webservices, parallelism and scalability models, distributed consistency models, distributed fault-tolerance, actor and monads, Facebook photo cache, Amazon key-value stores, Google Map-reduce, Spark, and TensorFlow.

Language(s) of Instruction
English

Host Institution Course Number
COMP3358

Host Institution Course Title
DISTRIBUTED AND PARALLEL COMPUTING

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

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