



日期：2019年4月18日（星期四）  
地点：哈尔滨工业大学（深圳）A樓502教室  
时间：10:00 – 11:00  
主讲人：李柏晴 (计算机科学与工程学系副教授)



### Title:

## OpenEC: Toward Unified and Configurable Erasure Coding Management in Distributed Storage Systems

### Abstract:

Erasure coding becomes a practical redundancy technique for distributed storage systems to achieve fault tolerance with low storage overhead. Given its popularity, research studies have proposed theoretically proven erasure codes or efficient repair algorithms to make erasure coding more viable. However, integrating new erasure coding solutions into existing distributed storage systems is a challenging task and requires non-trivial re-engineering of the underlying storage workflows. In this talk, I present OpenEC, a unified and configurable framework for readily deploying a variety of erasure coding solutions into existing distributed storage systems. OpenEC decouples erasure coding management from the storage workflows of distributed storage systems, and provides erasure coding designers with configurable controls of erasure coding operations through a directed-acyclic-graph-based programming abstraction. Experiments on a local cluster and Amazon EC2 show that OpenEC preserves both the operational performance and the properties of erasure coding solutions.

### Bio:

Patrick P. C. Lee received the Ph.D. degree in Computer Science from Columbia University. He is now an Associate Professor of the Department of Computer Science and Engineering at the Chinese University of Hong Kong. He currently heads the Applied Distributed Systems Lab and is working very closely with a group of graduate students on different projects in large-scale software systems. His research interests are in various applied/systems topics on improving the dependability of large-scale software systems, including storage systems, distributed systems and networks, and cloud computing.

夏令营日期：2019年7月8日至12日(星期一至五)

地点：香港中文大学校园

截止报名日期

2019年4月24日（星期三）

- 为有意报名入读本校**2020秋季入学**博士生申请人而设
- 介绍工学院的研究范畴、实验室及研究设施，与本院师生深入交流
- 获取博士生入学面试机会
- 获选香港博士生奖学金的同学将获得每月港币25100元的博士生工资
- 于中大校园内的免费六晚住宿 (7月7-13日), 以及交通津贴港币1500元



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查询电邮：[phd@erg.cuhk.edu.hk](mailto:phd@erg.cuhk.edu.hk)

微信号：foecuhk



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