COURSE DETAIL

ADVANCED NETWORK MANAGEMENT
Country China
Host Institution Tsinghua University
Program(s) Tsinghua University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 127
UCEAP Course Suffix
UCEAP Official Title ADVANCED NETWORK MANAGEMENT
UCEAP Transcript Title ADV NETWORK MGMT
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description
This course is a graduate course and is primarily project-oriented. It aims to teach students how to build REAL systems that measure the REAL data from the networks and services, process the using Big Data techniques such as Machine Learning, and solve their REAL performance and security problems.through case studies based on recent research papers in top network conferences, this course will cover the latest research progress in network management in these areas: measurement, anomaly detection, diagnosis, and mitigation. Along the way, we will also briefly review techniques that have broader applications more than just network management, such as time series analysis, association rule mining, and machine learning. This course focuses on how to improve the performance of Mobile Internet: Targeted Services: Web-based Services such as search engine, online shopping and social networking; Video Streaming Services. Targeted Networks: Enterprise WiFi Network, Residential WiFi & Broadband Networks, Cellular Networks, and Data Center Networks. Targeted Devices: Smart Phones.

Language(s) of Instruction
English

Host Institution Course Number
80240663

Host Institution Course Title
ADVANCED NETWORK MANAGEMENT

Host Institution Course Details

Host Institution Campus
Tsinghua university

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computer Science and Technology

Course Last Reviewed
2023-2024

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