

# **Software Architecture**

## **Assignment 2**

**(10 Points)**

You are responsible to complete an individual research-based task (with three components) related to software quality attributes and tactics. Each student has to independently complete the task described below and compile his/her report.

**DEADLINE: 11:59pm on (Friday) January 6, 2017**

**Task: Quality Attributes for Big Data Platform/Infrastructure (10 points)**

**Component 1:** (3 points)

Identify the quality attributes critical to a Big Data platform or infrastructure with the reasons for your choices.

**Component 2:** (4 points)

Carry out your own research on the architectural strategies and technical tactics ever applied for the above quality attributes in practice. Compile your report by summarizing and synthesizing the solutions.

**Component 3:** (3 points)

Take a real Big Data platform (or infrastructure, e.g., DropBox) as example to illustrate how the architectural strategies and technical tactics are used and combined together to tackle a set of specific quality attributes, which interrelate or even intertwine together.

**Assignment Deliverable:**

The assignment deliverables should be submitted individually in PDF format. Each deliverable contains about no more than 6 pages (A4 size) including a cover page that clearly addresses the assignment task, your name, and student ID#.