EE6605 Final Exam

(1) Date: Please note that December 16 is Wednesday, not Thursday.

(2) Requirements:

Turn on Zoom camera throughout the whole process, but no need to make recording. You may either use the same PC or laptop, or use another one, to work on the exam paper files. I will turn on Zoom and also make recording throughout. I will check on the whole class from time to time, and the recording will have a video of what happened during the exam time, which will scan everybody, for the university records.

(3) Exam Procedure:

Step 1: Around 6:25-6:30pm, download the Exam Paper (a Word file) from Canvas ---> "Files" folder ---> "Final Exam" folder.

Step 2: During 6:30-8:30pm, work on the test individually (open book, but no contact with other people).

Step 3: By 8:30pm, convert your final Word file to pdf and then upload it to Canvas ---> "Assignments" folder ---> "Final Exam" folder. This folder will be closed at 8:45pm. Thus, you have 15 minutes to do the uploading. Please note that you have only one chance to upload the pdf file, namely, you cannot re-upload another one to replace it.

(4) More Information:

You are allowed to use: PC or Laptop, iPad, regular calculator, Lecture Notes, Books, pens, scratch papers, printer, scanner, online search (but not to use mobile phone to make calls, except perhaps take photos if needed for processing files).

Below is the cover pages of the Final Exam Paper for your earlier information. Please check over it carefully and remember all the rules. Knowing this information beforehand can save you some time at the start of taking the exam.

CITY UNIVERSITY OF HONG KONG

Course Code & Title: **EE6605**

Complex Networks: Modeling, Dynamics and Control

Session: Semester A 2020/21

This is an **open-book** Test on Wednesday December 16, 2020

Complete the exam individually. No communication with others.

Answer **all 7** questions

* **Student Name**: _____

* **Student ID**: _____

You have **2 hours (18:30-20:30)**, plus 15 minutes to save your answers as pdf file and upload the pdf file to Canvas. Deadline for receiving your answer pdf file is **20:45**

Assignment Project Exam Help

In all questions below, to avoid triviality, let $3 \leq N < \infty$. For "True or False" questions, if your answer is **True**, give a brief explanation; if your answer is **False**, show a counterexample (by written description, no need to draw figures).

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Question 1 **[20 Marks]** (Graph Theory)

Question 2 **[20 Marks]** (Graph Applications)

Question 3 **[10 Marks]** (Internet Structure and Properties)

Question 4 **[10 Marks]** (Spreading Dynamics and Cascading Effects)

Question 5 **[10 Marks]** (Community Structures)

Question 6 **[15 Marks]** (Network Synchronization and Control)

Question 7 **[15 Marks]** (Knowledge Integration)

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