

# Simulation Project Submission Instruction

Due: April 21, 2011, 4:30 PM

Instructor: John C.S. Lui

## Note: Deduction Policy for Late Submissions.

Late submissions must be sent to **hongx87@gmail.com**

- Deduct 30% for one day late submission (within 24 hours).
- Deduct 60% for two days late submission (within 48 hours).
- Deduct 100% for more than two days late submission (after 48 hours).

## Submission Instructions:

1. Send your soft copy to **hongx87@gmail.com** by April 21, 2011, 4:30 PM.
  - (a) Your email subject should be **ERG2040C Student ID** (e.g. if your student ID is 1234455, then your subject is ERG2040C 1234455). If your email subject is not in this form, it may result in failure of receipt of your email.
  - (b) We will send you an acknowledgment after receiving your email within one day.
2. Submission documents:
  - (a) Three source codes (problem1, problem2 and problem3). The source codes for each problem should be separated.
    - i. In the source code of each problem, you should write your name and student ID in the comment part.
    - ii. The name of each source code should be **problem\_number.c or problem\_number.cpp or problem\_number.java** (e.g. for problem 1, the source code name should be problem\_1.c or problem\_1.java or problem\_1.cpp)
    - iii. The output of each problem should be in the form of:  $N =$  ,the estimation is:  
e.g. For problem 1, the output should be:(you just need to print the result of one time)

$N = 100$ , the estimation is:

$N = 10000$ , the estimation is:

$N = 1$  million, the estimation is:

For problem 2, the output should be:

$N = 1000$ , the probability of straight is:

$N = 1$  million, the probability of straight is:

$N = 10$  million, the probability of straight is:

For problem 3, the output should be:

Case one: E vote independently

$N = 1000$ , the probability of incorrect decision is:

$N = 1$  million, the probability of incorrect decision is:

$N = 10$  million, the probability of incorrect decision is:

Case two: E vote the same as A

$N = 1000$ , the probability of incorrect decision is:

$N = 1$  million, the probability of incorrect decision is:

$N = 10$  million, the probability of incorrect decision is:

**Note: This is an updated result output form, for the old result output form is not consistent with simulation problem. You can output the result in the old form or this new form. Both are right.**

- (b) Error distribution figure of problem 1. You may use any software to generate the figure such as matlab, and you do not need to submit the source code for generating the figure.
- (c) All the documents should be compressed into one zip file. The folder name should be: **Student ID.zip** (e.g. if your student ID is 123444, then the file name is 123444.zip)