Final Project (100 points)

The final project is used to evaluate the understanding of the knowledge we learned from class, and ability to apply the knowledge into real academic and industry areas.

The detailed steps are required as follows:

1. Download a paper from the academic databases (10 points)
   1. The paper is about the algorithms in data visualization and must be published in a journal after year 2015. Simple applications are not allowed.
   2. The academic database is limited in ScienceDirect: <http://www.sciencedirect.com/>.
   3. Each student must select a different paper. Once you select the paper, please post its information and link to the discuss forum in Blackboard to make sure it is different to others and previous ones.
   4. If your paper is not a qualified journal paper from this database. Final grading will be taken **50 points off**.
2. Read, understand the algorithm in the paper, and discuss its advantages and disadvantages with your group members.
3. Write a report to describe the paper and algorithm:
   1. Describe the data used in this paper (10 points)
   2. Explain the algorithm in detail from your understanding (20 points)
   3. Draw a flowchart of the algorithm (10 points)
   4. Explain the experimental results in details from your understanding (10 points)
   5. Discuss the advantages from your understanding (10 points)
   6. Discuss the disadvantages from your understanding (15 points)
   7. Provide the specific ideas to improve the algorithm. General ideas are not allowed. (15 points)
4. Submit the report to blackboard by Midnight of July 23rd, 2018.