**Requirements:**

1. Choose a recent paper published in top data mining venues during the past three years (2010-2013). The top venues includes top conferences and journals in data mining areas, such as ACM SIGKDD Conference on Knowledge Discovery and Data mining (KDD) and ACM Transactions on Knowledge Discovery from Data (TKDD).
2. Your selected paper must be relevant to several data mining tasks, including classification, clustering, association rule mining, etc.
3. Write a response report in no more than **4 pages**. The format is described as follows. (Times new roman, size 12)
4. Also attach the research paper together with your report.

**Format of Report**

In the beginning of your report, please describe the title of the paper, the authors, and the publication venues.

**Section I: Overview of The Paper**

You are asked to write an overview of a scientific paper. In particular, you should clearly describe the following major issues in your overview section.

*Problem.*

What is the problem? Is this a classical/existing problem or a new problem? What are key challenges/difficulties? Why necessary to study this? What are possible impact and applications?

*Methodology / Theory*

What kinds of methodology or theory are proposed to solve the problem? Are the proposed methodologies/theory invented by the authors or based on existing studies?

*Algorithms.*

What are the new algorithms proposed in this paper? What are the key ideas in the proposed algorithms? What are the key steps? What are the time and space complexity of the proposed algorithms?

*Experiments.*

What kinds of empirical studies have been conducted in the experiments? Why conducting such experiments? What objectives to be validated through the experiments?

**Section II: Qualitative Evaluation**

You are asked to judge whether a scientific paper is good using the following four criteria. You should comment on all of these four aspects.

*Quality*

Is the paper technically sound? Are claims well-supported by theoretical analysis or experimental results? Is this a complete piece of work, or merely a position paper? Are the authors careful (and honest) about evaluating both the strengths and weaknesses of the work?

*Clarity*

Is the paper clearly written? Is it well-organized? (If not, feel free to make suggestions to improve the manuscript.) Does it adequately inform the reader? (A superbly written paper provides enough information for the expert reader to reproduce its results.)

*Originality*

Are the problems or approaches new? Is this a novel combination of familiar techniques? Is it clear how this work differs from previous contributions? Is related work adequately referenced? We recommend that you check the proceedings of recent related conferences and journals (KDD, SDM, ICDM, TKDD, TKDE, etc.) to make sure that each paper is significantly different from papers in previous proceedings.

*Significance*

Are the results important? Are other people (practitioners or researchers) likely to use these ideas or build on them? Does the paper address a difficult problem in a better way than previous research? Does it advance the state of the art in a demonstrable way? Does it provide unique data, unique conclusions on existing data, or a unique theoretical or pragmatic approach?

**Section III: Limitations and Future Work**

No paper is perfect in every aspect. Please comment at least three key limitations of the paper. Please also discuss at least three kinds of future work which can be considered to address/overcome the limitations of the paper. You can also discuss what kinds of applications can be benefitted by applying the proposed techniques in this paper.