Presentation Guidance

Teams of students will be formed to survey a research topic and make presentation to introduce the topic. The list of topics (and a paper for each topic as a starter) will be announced later. To prepare for the presentation, each team should search the literature to include more relevant material. The bottom line is for each student in the team to read at least one paper in detail and discuss with other team members to put together the presentation.

The following are typical aspects to stress on in the presentation:

1. **Problem**
    - What is the problem (or problems) the papers addressing?
    - Is this a real problem? Motivation?
    - What is the composition of the problem? Definition?
    - What are the assumptions made in these papers? Are they reasonable assumptions? What's the impact of these assumptions? What happen if we relief these assumptions?
2. **Related Work**
    - What is the state of the art?
    - What are the categories of approaches proposed to address the problem and the ideas behind?
    - What are the pros and cons? Provide your analysis.
3. **Methodology**
    - What are the approaches used to address the problem(s)? (Describe them in an easy-to-understand manner, with sufficient details)
    - Are the approaches adopted in the papers appropriate?
    - What other alternatives can be used?
4. **Solution**
    - What is the proposals presented in these papers?
    - Are the ideas original? Are the proposed solutions convincing? Why and why not?
    - Are the proposed solutions derived from the existing works?
    - What alternatives we may have? Give any idea you may have, even if it's wild and unverified.
5. **Support**
    - What has been done to support the authors' claims or to demonstrate/prove the solutions?

- Is it sufficient and justifiable? What (better) alternatives can be used? How to proceed?
- Has the proposed solutions been compared with existing solutions? Is it superior to other solutions? In all cases or in some specific cases? What important cases are not covered in this paper?
- If the support is based on some experiments, are real data or synthetic data used? Do the experiments make sense to you? Why and why not?

6. **Where to go from here...?**
   - Have the papers already provided an optimal solution? Or they are just a preliminary results? Why and why not? Where can they be improved? Is the improvement significant? How?
   - What are the important issues these papers failed to address? Why?
   - What are the problems with the proposed solutions? How can we address these problems?
   - With the result of the papers, what can we do? Can it be applied to your own research and/or other problems? What's the implication?
   - Can the problems be extended? What're the possible ways to address the problems?
   - Can you come out with a new research ideas and plans?
7. **Presentation**
   - The presentations should be professionally prepared in PowerPoint.
   - The presenters should NOT present the topic as a bunch of separate papers.
   - An excellent presentation should include more related materials and integrate them in a coherent fashion.