**Lecture 5 Report Requirement**

**The report should contain 3 parts:**

1. **For each non-optional reading, identify ONE major contribution or limitation and defend your choice. (½ page max)**
2. **For each non-optional reading, describe an idea of yours that extends the paper and elaborate as much as possible. (½ page max)**
3. **Answer the questions below.**

**For the first two parts, the discussion must have depth (good examples posted on piazza and baidu pan).**

**Send your report in PDF format to 1430090453@qq.com, named as "report5_[first name][last name].pdf" (e.g., report5_ZhangChen.pdf). The report is due on 10 am, China Standard Time, April 7, 2020.**

**Report Questions:**

**"When Does Computational Imaging Improve Performance?"**

1. What is Computational Imaging? Give a brief explanation.
2. What is impulse imaging?
3. What is the upper bound on the performance gain G of masking-based CI techniques? What does G=1 mean?
4. What is the effect of the illuminance on CI performance?
5. What is the final rule of thumb of this paper?

**"Efficient Space-Time Sampling with Pixel-wise Coded Exposure for High Speed Imaging"**

6. Why can each pixel have only one continuous exposure during the integration time of one shot?
7. What problems will arise when the number of the captured image I is significantly less than the number of the space-time volume E? How to solve it?
8. List at least three influence factors which contribute to the final performance of reconstruction.
9. Explain what is the Grid pixel-wise shutter.
10. Explain the effect of different patch sizes on the reconstruction results.