The homework assignment aims to (1) understand a common structure of scientific papers and (2) practice writing a manuscript using LaTeX in IEEE format.

**Task 1:**

Choose one ORIGINAL paper in your research interest in Computer Science. Make it sure that (1) the paper mainly proposes a NEW computational methodology or algorithm and (2) includes computational experiments comparing performance with other related works.

Read the paper and summarize each paragraph as a sentence in LaTeX:

1. In Abstract, analyze each sentence. Summarize what each sentence wants to say in narrative manner instead of summarizing the content itself. E.g., the first sentence in abstract says “the importance of the research in big data analytics”,
2. In Introduction, summarize key ideas on EACH PARAGRAPH as a sentence.
3. In Methods, you can summarize the method itself briefly, instead of summarizing on each sentence.
4. In Experiments (or experimental results), summarize key ideas on EACH PARAGRAPH as a sentence.
5. If there is section of “discussion”, summarize a key idea on each paragraph.
6. You don’t need to summarize “Conclusion”.

**Task 2:** In the paper, choose at least four equations which are not simple. Then write the equations in LaTeX. May be good to include them in “Methods”.

**Task 3:** Please use IEEE Latex template¹ for the summary. Work with online latex web service (e.g., overleaf.com), and submit the link to Canvas so that the summary can be easily shared.

**Submission:** Submit a “sharable link” of the summary to Canvas.

**Deadline:** You have to submit HW1 by **Friday, September 20, 2019**. Late assignments will not be accepted for credit.

¹ [https://www.ieee.org/conferences/publishing/templates.html](https://www.ieee.org/conferences/publishing/templates.html)