Specialist English: Assignment 8

Rebecca J. Stones
rebecca.stones82@nbjl.nankai.edu.cn

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In this eighth assignment (worth 5% of the final mark), we will look at presenting solutions (i.e., what we've done) in a computer science paper.

I'll scale the marks on this assignment according to $m \mapsto \min(m, 10)$ for Master's students and $m \mapsto \lceil m/1.3 \rceil$ for Ph.D. students.

My marking will be affected by (a) your English writing, (b) your LaTeX typesetting, (c) your mathematical presentation, and (d) your understanding of the underlying computer science. Basically, I will "peer review" your assignments.

Problem 1   Optimize the following snippet by rewriting the text and redrawing the figure. For full marks, your answer needs to: use appropriate capitalization (i.e., for proper nouns, acronyms, the start of a sentence, and not for words which are acronymized); fix "denoted as DO" and so on; use correct punctuation; make the figure self-contained; minimize the use of acronyms in the figure; use a font that matches the main text; the text in the figure should not be part of the image.

[5 marks]

I suggest using tikz (`\usepackage{tikz}`) to draw figures, but that's your choice. In any case, the figure should look worthy of publication in a high-quality outlet.

In our system, both Data Owners (denoted as DO) and Data Requester/Receivers (denoted as DR) are users, as shown in Fig.1. The Trusted Authority (TA) is a trusted party to generate Public Keys (PK), Master Keys (MK) for data encryption and Secret Key (SK) for each DR. Cloud Servers(CS) are assumed to be semi-trusted. We employ them to be in charge of storing our encrypted data.
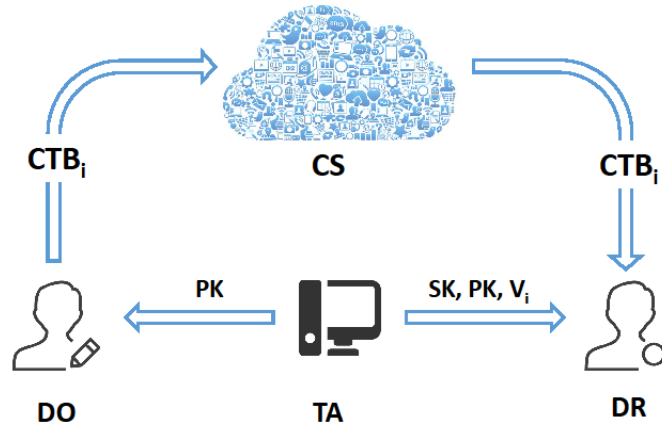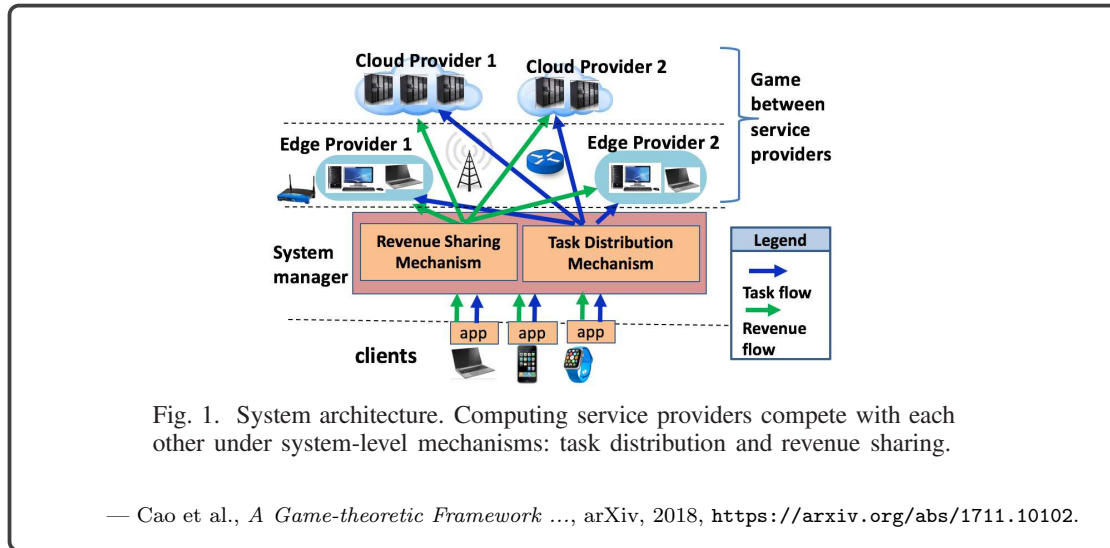
Fig. 1. System Model

— Li et al., *A Low-latency Secure Data ...*, arXiv, 2018, `https://arxiv.org/abs/1811.08271`.

Problem 2   In the following vizualization:

1. identify four distinct words which are unnecessary (I suggest considering repeated words, or words which can be deleted without changing the meaning); and   [2 marks]

2. identify three imperfections (e.g., inconsistencies, misalignments, overlaps, misused icons, capitalization, cramming).   [3 marks]

Fig. 1. System architecture. Computing service providers compete with each other under system-level mechanisms: task distribution and revenue sharing.

— Cao et al., *A Game-theoretic Framework ...*, arXiv, 2018, `https://arxiv.org/abs/1711.10102`.

Problem 3

1. What are two plausible (but distinct) meanings for "shown" in "As shown in Figure [foo]" in a computer science paper? In the following snippet, what is the meaning of the word "shown" in "As shown in Fig. 4(a)"?   [2 marks]

2. How do we correct the grammar in "HOUTU is of the decentralized architecture"?

          [1 mark]

3.1   HOUTU architecture

As shown in Fig. 4(a), HOUTU is of the decentralized architecture, which is composed with several autonomous systems, deployed in geographically distributed data centers. Each system has the ability to run conventional single-cluster jobs, and also to cooperate with each other to support geo-distributed job executions, while we focus the latter in this work.

— Zhang et al., *Towards Reliable (and Efficient) Job Executions ...*, arXiv, 2018.