Computer Science Research Paper

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Abstract

This tutorial article highlights some points that a graduate or senior undergraduate student should bear in mind when reading a computer science research paper. Specifically, the reading process is divided into three tasks: comprehension, evaluation and synthesis. The genre of paper review is then introduced as a vehicle for critical reading of research papers. Lastly, guidelines on how to be initiated into the trade of conference and/or journal paper review are given.

Designed to be used in a graduate course setting, this tutorial comes with a suggested marking scheme for grading paper reviews with a comprehension-evaluationsynthesis structure.

1 Comprehension

The first lesson to reading research papers is learning to understand what a paper says. A
common pitfall for a beginner is to focus solely on the technicalities. Yes, technical contents
are very important, but they are in no way the only focus of a careful reading. In general,
you should ask yourself the following four questions when you are reading a research paper.

- 1. What is the research problem the paper attempts to address? What is the motivation of the research work? Is there a crisis in the research field that the paper attempts to resolve? Is the research work attempting to overcome the weaknesses of existing approaches? Is an existing research paradigm challenged? In short, what is the niche of the paper?
- 2. What are the claimed contributions of the paper? What is new in this paper? A new question is asked? A new understanding of the research problem? A new methodology for solving problems? A new algorithm? A new breed of software tools or

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