Extra Graduate Work Requirements

CSCE 531 Spring 2022

The extra work is due on Monday, April 25, 2022, at 23:55 through the departmental dropbox.

The syllabus (on the main course website) has the following words:

> Graduate students are required to evaluate an important paper from the peer-reviewed literature on compilers and assess its contribution by writing a report and/or preparing a presentation and/or writing a software program. Graduate students are required to do the extra work, and a student may lose up to one letter grade for missing or unsatisfactory extra work.

For satisfactory work, the following is required.

In any case, I expect proper use of language (English grammar and vocabulary). o

For a report, at least five pages in 11-point or 12-point font, 1.5-spaced of double spaced. Citations and references must conform to a standard of your choice. (The Graduate School also gives you a choice of standard for citations and references in thesis and dissertations.) A common choice if you use LaTeX is the Chicago Manual of Style, but other standards, such as IEEE, MLA, and APA, are allowed. (These are only examples.) Note that IEEE allows the use of a reference as a noun, as in "proved in [4]," and "as first used in [8]" (https://ieeeauthorcenter.ieee.org/wp-content/uploads/IEEE-Reference-Guide.pdf); this is very convenient in technical writing. The report needs to be submitted as a pdf file. The report needs a title block with your name, the date, course information, and the topic of your report. The report must be concluded by a References section. I recommend dividing the report into sections like the ones listed for presentations in the next paragraph.

For a presentation, you may choose PowerPoint or LaTeX (preferably using a slide package like beamer, https://www.overleaf.com/learn/latex/beamer). PowerPoint is preferred, but LaTeX is acceptable. For a PowerPoint presentation, a pptx file needs to be submitted. For a LaTeX presentation, both a pdf file and a zip archive with the LaTeX and image sources need to be submitted. Your presentation must include: (1) a title slide with your name, the name of the course, the date, and identifying information for the paper(s) that you base your presentation on; (2) at least five slides describing the topic of your presentation; (3) at least two slides placing the topic in historical and/or conceptual context and listing related work (both preceding and following the work you describe); (4) at least one slide with your assessment of the work; (6) a slide with full references to all the material you used for your presentation. It is recommended that you limit usage of figures from your source material to one or two and that you create original figures if more are needed. In any case, figures copied or adapted from source material must be clearly referenced.

For a reconstruction, please contact me directly to discuss specific requirements.

I will not assign a grade to your work, but if it does not meet minimal requirements, it will be considered unsatisfactory.

A good place to find suitable papers is the journal _*Software Practice and Experience*_. The library has full online access for papers starting in 1997 (maybe 1996 too). You could browse issues online and see

if something looks interesting. The paper does not need to be from a recent issue. For example, this may be a good one: Vilela, P.R.S., Maldonado, J.C. and Jino, M. (1997), Program graph visualization. Softw: Pract. Exper., 27: 1245-1262. https://doi-org.pallas2.tcl.sc.edu/10.1002/(SICI)1097-024X(199711)27:11<1245::AID-SPE128>3.0.CO;2-2

Another source of good papers are the "Further Reading" sections in [M] and [R]. ("Further Reading" in [R] is Appendix D.) I will also accept presentations on sections of books, such as the Tiger Books and the Dragon Book.