

Assignment 3 — Paper presentations and review

1 For CS 4610 Students

You are assigned a paper to present in one of the following classes. The paper assignments are random and listed in the last section. The presentation should describe the key idea of the paper using your own slides. If a downloadable tool is available, then show a demo of the tool as well. Keep the presentation and demo between 15–20 minutes.

2 For CS 563 Students

Submit 10 reviews for any of the following 12 papers. For each paper, the review is due *before* 1pm on the day listed against the corresponding paper. No late reviews. Reviews are to be submitted in the “Drop Box” on LMS. Here is the review format I expect.

Summary 1-3 key ideas in 1 sentence each.

Main contribution 1 sentence.

Critique

- Are there flaws/assumptions in the authors argument leading from an idea to the experiment to the conclusions. (few sentences as needed)
- Whats the key take-away of this work.
- What are limitations and open research problems. (few sentences as needed)

3 Topics and dates

Symbolic execution

28 Mar	Umar Muneer	Symbolic execution and program testing
2 Apr	Muhammad Nadeem Younas	Generalized symbolic execution for model checking and testing
4 Apr	Zeshan Latif Bajwa	CUTE: A Concolic Unit Testing Engine for C
9 Apr	Usman Asif	Pex–White Box Test Generation for .NET

Software model checking

11 Apr	Hafiz Salman Asif	Model checking for programming languages using VeriSoft
16 Apr	Samia Azhar	Model Checking Programs
18 Apr	Habiba Malik	Dynamic Partial-Order Reduction for Model Checking Software
23 Apr	Syed Jalil Hassan	Generating tests from counterexamples

Test generation

25 Apr	Saad Ahmed	Korat: Automated testing based on Java predicates
30 Apr	Umair Haroon	The AETG system: An approach to testing based on combinatorial design
2 May	Mohsin Ali	Feedback-directed random test generation
7 May	Farooq Haider Bajwa	TestEra: Specification-based testing of Java programs using SAT

Good Luck!