

Software Testing

(Rubric: Term Paper)

Term Paper Component:

Part –I: (6th April 2022, **150 Points**, Document (100) + presentation (50, in-class, 10-15 min) - 5 pages

- Title
- Abstract
- Introduction
- Related work
- Problem

Part –II: (4th May 2022, **150 Points**, Document + presentation (virtual, 10-15 min) -5 pages

- Solution
- Results
- Conclusion/Future work
- References

Final paper: Part I + Part II (6 to 10 pages), IEEE or any research article format (brightspace, 11:00 PM 4th May 2022)

Part I:

- Mostly reading about testing (class notes: homework-1 & quizzes)
- Select your team interest (security -> pen-testing -> Model-based ->finite state (shortest path, etc)
- Start gathering evidence to define the problem (refer any article, methods, tools, books- tip refer last 5 years material)
- Introduction: build a story, start towards your problem.
- Related work: find all the existing problems/methods close to your problem (at least 5 methods or tools)

Part II:

- Find drawback/disadvantages/challenges in all the 5 methods/tools
- Solution: Propose a solution (by adding, combinations, or applying any math/CS or any other methods)
- Results: Find ways to test your solution(manual, script, prototype, user feedback, etc) to show your solution address those challenges