

CS 3503: Computer Architecture and Organization

Project

- Term project guidelines
- Initial project report guidelines

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Project Guidelines



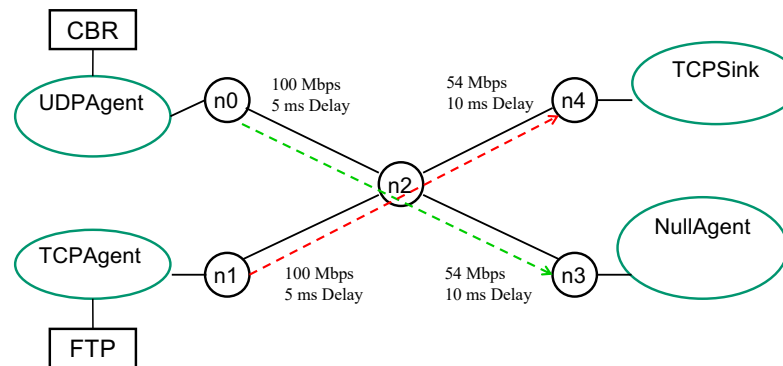
Project Topics

- Suggested Topics
 - Possible research topics in Computer Architecture and Organization include but are not limited to the following:
 - Network Architectures - SDN controllers, NFV, Cloud computing
 - Network Protocols – TCP protocols for flow controls, Routing protocols for finding best paths, etc.
 - Network Security and Privacy - Encryption algorithms
 - Network Management – Scheduling, load-balancing algorithms



Project Types

- Project Types
 - Implementation research – NS2 simulation tool can be used (see the Lab 1 exercise)



- Survey research (evaluations with implementation)

Project Report

- Report submission instruction
 - There is one final report
 - at least 4 pages including figures/tables
 - Including references – it is not counted toward the 4 pages limit.
 - Must use either ACM/IEEE conference templates either Word or Latex (You can also download it from D2L)
 - <https://www.acm.org/publications/proceedings-template>
 - <https://www.ieee.org/conferences/publishing/templates.html>
 - Project people
 - Individual work or up to 4-people group work (there is a group evaluation if you are in group work).
 - Final Report Deadline
 - November 20th, Wednesday, (No extension!)



Project Report

- Report submission instruction
 - Example of the template (you can download it from D2L)

Your Research Topic here

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John Doe

Department of Information Technology
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ABSTRACT

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1 INTRODUCTION

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A

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After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



Project Rubric

- Project Rubric includes
 - Abstract
 - Introduction
 - Literature Review
 - Proposed Solution (Idea)
 - Implementation
 - Evaluation and Results
 - Conclusions
- Project Rubric posted on D2L



Project Presentation

- Report presentation instruction
 - Presentation schedules
 - **Week 14 & 15**
 - Each team (individual or group up to 3 people) has a 10 min-presentation
 - Presentation includes content based on the project rubric.
 - Research Title
 - Introduction: Motivation or Goals, and Problem Statement
 - Literature review: Existing solutions
 - Proposed solution
 - Implementation
 - Evaluation and Results
 - Conclusion (may include Future Works)
 - Main references
- Final project report
 - **Due: The last day of the class– No extension!!**
 - Based on the project rubric, the report (using the given Word Template with 9 front size) is at least 4 pages including all figures or tables.
 - Must provide all citations and references.



Initial Project Report Guidelines



Initial Project Report

- Report submission instruction
 - One-page initial report including:
 - Project team member names
 - If the project is an individual project, then you have only one member as yourself.
 - If the project is a group project, then you have a team report with member names.
 - Project topic
 - Motivations
 - Problems/Challenge Issues.
 - Initial Report Deadline
 - Week 6, Wednesday (No extension!)



Initial Project Report

- Initial project rubric

Initial Project Proposal Grade and Feedback

Student Name:

Student ID:

Grade:

	Score A, B, C, D	Feedback
(1) Topic: Should be related to Computer Networking.		
(2) Motivation & Challenges: More clearly describe information about motivation and problem statements; Make sure that the motivation and specific problems are connected and concisely stated.		
Other comments:		

Advanced (A: 90 ~100 score) – clear information given

Developing (B: 80~89 score) – some information given, overall given but might not be clear

Introductory (C: 70~79 score) – limited information, unclear or missing

Poor (D: 60~69 score) – no information given

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