

# Parallel and Distributed Computing

## Course Project – Spring 24

For your course project, you have to write a **conference paper in IEEE format** on a research based topic related to the Parallel and Distributed Computing domain.

### Instructions:

- This is a group project. Each group can have 2 - 3 members.
- The organization of an IEEE conference paper includes:
  - Abstract
  - Introduction
  - Literature Review / Related Work
  - Research Methodology
  - Experimentation / Implementation
  - Results
  - Conclusion and Future Directions
  - References

### Submission:

There are 4 phases of the course project. 2.5 absolute marks are assigned to each phase.

#### Phase 1:

- Select a research domain from the Google sheet whose link is available in the GCR.
- Write names and roll numbers of group members in the column next to the selected domain by 18 Feb 2024, 11:55 pm.
  - You cannot choose a topic which has already been chosen by another group.
  - You can consult with me in case of choosing a topic which is not present in the Google sheet.
- Download 2 research papers per member (i.e. 6 papers for a group of 3 members) related to selected domain and submit the **literature review** by 8 Mar 2024, 11:55 pm.
- In literature review, you have to identify the potential research gaps from the selected papers.

#### Phase 2:

- Based on the identified research gaps, you have to introduce your research work in **introduction** and present a **research methodology** to be used to conduct your research by 22 Mar 2024, 11:55 pm.

### **Phase 3:**

- Write down the experimentation or **implementation** details, **results** obtained, **conclusion** and **future directions, abstract** and **references**.
- Submit the comprehensive conference paper by 26 Apr 2024, 11:55 pm.

### **Phase 4:**

- Present the paper in front of the class in a formal manner.
- Each group will have 10 – 15 minutes to present their entire paper.
- Presentation marks division is given as follows:
  - There are total 12 marks for the presentation.
  - The presentation must be in IEEE format. It must include Abstract, Introduction, Literature Review, Research Methodology, Potential Research Gaps, Conclusion and Future Directions, and References. There will be 1 mark each for the aforementioned headings except references.
  - 1 mark will be given to those who will have white background and visible font in their presentation.
  - 3 marks are dedicated for your formal dressing, body language and delivery of the presentation.
  - 2 marks will be awarded to those who will have well organized presentation. You can add things like table of content, images, graphs, comparisons etc.

### **Bonus Phase:**

- 2.5 absolute marks will be given as bonus to each member of the group who will submit their paper in a conference held anywhere around the world.
- You can get detailed call for papers from the given link.
  - <http://www.wikicfp.com/cfp/>

### **Relevant Journals to Explore for Research Topics:**

- <https://www.journals.elsevier.com/journal-of-parallel-and-distributed-computing>
- <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6488907>
- IEEE Transactions on Dependable and Secure Computing (TDSC)
- New Generation Computing
- Theory of Computing Systems
- Journal of Computer Science and Technology (JCST)

### **List of Research Topics:**

- Topics are listed in a Google Sheet whose link is available in Google Classroom.

**Best of luck!**