

Big Data Project

Project Requirements and Constraints



Practical Things

Presentation and report requirements

Code:

- GitHub Repository
 1. Add your Github user in this Google Sheet:
 2. Create a repository in our organization with your project name.
- Links on [Moodle page](#).

Doc:

- **Slides:** submitted as pptx or pdf, no common template
- **Report:** submitted as pdf, ACM SIG Proceedings Template Official
 - we will use a two-column template from [ACM](#) that is being used in SIGMOD, which is one of the premier data management conferences
 - The actual template files can be found here (also for Word):
<https://www.acm.org/publications/proceedings-template>
 - I suggest you use the Latex version available on Overleaf:
<https://www.overleaf.com/latex/templates/association-for-computing-machinery-acm-sig-proceedings-template/bmvfhcdnxfty>



The Name of the Title is Hope

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Figure 1: Seattle Mariners at Spring Training, 2010.

ABSTRACT

A short and brief document in L^AT_EX is presented as an article formatted for publication by ACM in a conference proceedings or journal publication. Based on the “seattle” document class, this document class provides a template for such a document, as well as many of the formatting elements an author may use in the preparation of the documentation of their work.

CCS CONCEPTS

Computer systems organization → Embedded systems; Embedded; Robotics; Networks → Network reliability.

KEYWORDS

dates, neural networks, gaze detection, text tagging

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Unpublished working draft. Not for distribution.

ACM’s consolidated article template, introduced in 2017, provides a consistent L^AT_EX style for use across ACM publications, and incorporates accessibility and metadata extensibility functionality for electronic documents. The major components of the new ACM L^AT_EX template have been examined, and their unique features described. The new ACM L^AT_EX template has been designed to make it easier to prepare documents for publication in ACM journals, conferences, and proceedings while providing all the features required for publishing high-quality technical work.

If you are new to publishing with ACM, this document is a valuable guide to the process of preparing your work for publication. If you have experience publishing with ACM, this document provides insight and instruction into more recent changes to the article template.

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The Heilmeier Catechism

Proposal structure and presentation



- **What are you trying to do? [GOAL]**
Articulate your objectives using absolutely no jargon.
- How is it done today, and what are the limits of current practice?
- What is new in your approach and why do you think it will be successful?
- **Who cares?**
- **If you succeed, what difference will it make? [IMPACT]**
- What are the risks?
- How much will it cost?
- How long will it take?
- **What are the mid-term and final “exams” to check for success? [REVIEW]**



Input for Proposal Outline

Proposal structure and presentation

- **The Problem:** What is the problem you are trying to solve
 - Define very clearly. Explain why it is important.
- **Novelty:** Why has previous research not solved this problem? What are its shortcomings?
 - Describe/cite all relevant works you know of and describe why these works are inadequate to solve the problem. This will be your literature survey.
- **Idea:** What is your initial idea/insight? What new solution are you proposing to the problem? Why does it make sense? How does/could it solve the problem better?
- **Hypothesis:** What is the main hypothesis you will test?
- **Methodology:** How will you test the hypothesis/ideas? Describe what simulator, model or you will use and what initial experiments you will do.
- **Plan:** Describe the steps you will take. What will you accomplish by Milestone 1, 2, 3, and Final Report? Give 75%, 100%, 125% and moonshot goals.

Adapted from Onur Mutlu's slides.

Next Steps and Proposal Presentations

Next Week

Code Repository:

- Find a group (if not already), think of a project name and create a repository.
- Make sure to list all team members in the repository's README.md

Proposal Presentations:

- Upload proposal slides to Moodle (3-4 slides)
- Next week you will present your proposals in front of the class:
 - **max 3 min presentation time (sharp)**
 - **ca 5 min feedback and question time**