Reading seminars in 2024

Fall semester

Schedule

- Default: 1:15 - 2:45 pm, Wednesday
- Room: ???

Project-Based Learning Initiative: Guidelines and Instructions

This initiative aims to replace traditional book-based learning with hands-on, collaborative projects that allow you to explore advanced concepts in Graph Learning and Image Processing. Here are the detailed guidelines and instructions to ensure your project is well-structured and aligns with the initiative's goals:

1. Group Structure

Total Members: 7 students, divided into two specialized groups.

Group A: students focusing on *Graph Learning Research*.

ArchVision AI: students focusing on *Image Processing Research*.

2. Objective

The primary objective is to foster a shift from passive learning to active project-based learning. This approach enables you to:

- Deepen theoretical understanding through practical application.
- Engage in projects that align with your research focus area.

3. Project Selection

Criteria for Project Selection:

- Relevance to the group’s specific focus area (*Graph Learning* or *Image Processing*).
- Should address a significant problem or explore an innovative concept.
- Feasible to complete within a semester.

Example Project Idea: *Using Neural Architecture Search to find the best architecture for image classification.*

4. Project Execution

Timeline: Projects must be completed within one semester.

Collaboration Platform: Use *GitHub* for version control

Roles of All Members:

- Research relevant papers and source code.
- Contribute to the project's codebase, documentation, and other materials on GitHub.
- Participate in weekly meetings to discuss progress and address challenges.

Individual Responsibilities:

Literature Review: Each member is assigned specific resources to review and present summaries.

Code Implementation: Members focus on different modules or features to ensure full project coverage.

5. Expected Outcomes

Minimum Outcome: Successful replication of a recent research paper to code implementation.

Desired Outcomes (If possible):

Potential publication of robust and novel results in academic journals or conferences.

6. Benefits of Project-Based Learning

After completion:

- Enhance coding and project management skills.
- Develop critical thinking and problem-solving abilities through real-world applications.
- Build a portfolio on GitHub to showcase skills to potential employers.
- Demonstrate teamwork and collaborative skills.

Resilience in Outcomes:

- Even if the project is not publishable, it serves as a valuable addition to your professional portfolio.

7. Project Management and Evaluation

Progress Tracking: Use *GitHub Issues* and *Projects* to manage tasks, milestones, and deadlines.

Regular Check-ins: Weekly meetings for updates, insights, and problem resolution.

Final Presentation: At the semester's end, present the project outcomes, highlighting

achievements, challenges, and lessons learned.

Thank you. Enjoy Learning

Spring semester

Schedule

- Default: 1:15 - 2:45 pm, Monday
- Room: 121/122 実習室
- April 8, 15, 22
- May 13, 20, 27
- June 3, 10, 17, 24
- July 1, 22, 29

Book

- https://www.cs.mcgill.ca/~wlh/grl_book/ (each time about 10 pages)

Date	Presenter	Contents	Participants	Remark
April 8	Zhao	till Chapter 1 (my memo) & decide the assignment	Li-Yang, Rimsa, Rojan, Mizuguchi, Zhenyu, Likun, Haiyan	Every body shall bring his/her own reading memo as if he/she is the speaker.
April 15	Li-Yang	2.1, 2.2 (pp.9-21)	Haiyan, Mizuguchi, Likun	
April 22	Haiyan	2.3, 2.4 (pp.21-27)	Li-Yang, Rimsa, Mizuguchi, Rojan, Li-Kun	
May 13	ROJAN	3 (pp.28-37)	Haiyan, Marco, Likun	
May 20	Rojan	4 (pp.34-45)	Li-Yang, Likun	
May 27	Mizuguchi	5.1, 5.2 (pp.46-58)	Li-Yang, Rimsa, Zhenyu, Li-Kun, Haiyan	
June 3	Zhenyu	5.3-5.6 (pp.58-67)	Haiyan, Rimsa, Rojan, Mizuguchi, Likun	
June 10	~~Li-Yang~~ Zhao	6 (pp.68-74)	Haiyan, Likun, Zhenyu, Tomoya, Chi-Wei	
June 17	Haiyan	7.1 (pp.75-88)		

June 24	Rimsa	7.2, 7.3 (pp.88-101)	Zhenyu, Rojan, Tomoya, Chih-Wei, Haiyan, Likun	
July 1	Mizuguchi	8 (pp.102-107)	Zhenyu, Haiyan, Likun, Chi-Wei	
July 22	Rimsa	9.1 (pp.108-115)	cancelled	
July 29	Zhenyu	9.2-end (pp.115-124), grl_book_notes_zhenyu_zuo_july28.pdf	on-demand	

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