16.420 – Grad section
Fall 2023

Nick Roy

TA: Laura Brandt

Presentation Guidelines

Presentation: 30 minutes

For the presentation, we expect that you will:

- Describe the motivation and objectives of the work;
- Summarize the current state of the art and the gaps in knowledge that the research seeks to address;
- Describe the research problem as stated in the paper;
- Use previous and current literature to support this discussion and cite this work correctly;
- Present a critical analysis of the methodology and its key technical and/or intellectual elements;
- Describe the research findings and the impact those findings have had;
- Identify shortcomings of the research, if any;
- Describe what research remains to be done;
- Answer questions from the audience and manage the discussion.

Grading Scheme

The presentations will be graded according to the following rubric:

- Introduction and problem statement (10%)
- Related work / placing the paper in context (20%)
- Summary of approach (10%)
- Experimental results (10%)
- Analysis of results and limitations (10%)
- Results that followed (or could follow) after the paper was published (20%).
- Discussant participation (20%)

Notice that 40% of the presentation is content that would be outside the text of the paper. Please read additional material beyond the paper itself.

Presentation Schedule

Week	Date	Presenter	Discussant	Discussant	
6	10/13	Sunshine Jiang	Eugenia Feng	Tory Smith	Mastering the game of Go with deep neural networks and tree search
7	10/20	Jake Olkin	Alicia Chen	Mason Peterson	An Analysis of Monte Carlo Tree Search
8	10/27	Mason Peterson	Tory Smith	Sunshine Jiang	Square Root SAM: Simultaneous Localization and Mapping via Square Root Information Smoothing
9	11/03	Akash Anand	Mason Peterson	Eugenia Feng	FastSLAM: A Factored Solution to the Simultaneous Localization and Mapping Problem
10	11/9	Alicia Chen	Anika Cheerla	Jake Olkin	**NOTE THURSDAY MEETING** A Weighted Constraint Optimization Approach to the Nurse Scheduling Problem
10	11/10				Veterans Day
11	11/17	Tory Smith	Jake Olkin	Akash Anand	Composing graphical models with neural networks for structured representations and fast inference
12	11/24				Thanksgiving
13	12/01	Anika Cheerla	Akash Anand	Alicia Chen	Generalizing Plans to New Environments in Relational MDPs
14	12/08	Eugenia Feng	Sunshine Jiang	Anika Cheerla	Value Iteration Networks

This schedule is for convenience only. The official link to the schedule is here.