Reading seminars in 2022

Second semester

Schedule (contact: Li, Yanghepu)

- Default: 10am-12pm, Wed
- Oct 19, 26
- Nov 2, 9, 16, 30
- Dec 7, 21, 28
- Jan (2023) 11, 25

Book

- dive_into_deep_learning.pdf shared by Yanghepu Li

Date	Participants (* represents the presenter)	Contents
Oct. 19	Tim; *Li-Yang; Wenruo; Wenlong; Rimsa; Rojan; Zhenyu	Dive Into Deep Learning: basic definitions/linear model/tasks/evaluations...
Oct. 26	Tim; Li-Yang; Wenruo; *Wenlong; Rimsa; Rojan; Zhenyu	Dive Into Deep Learning: entropy/relative entropy/KL divergence...
Nov. 2	Tim; Li-Yang; Wenruo; Wenlong; Rimsa; *Rojan; Zhenyu	Dive Into Deep Learning: multilayer perceptron
Nov. 16	Tim; Li-Yang; *Wenruo; Rimsa; Zhenyu	Dive Into Deep Learning: CNN
Nov. 30	Tim; Li-Yang; *Rimsa; Wenlong; Wenruo; Rojan	Dive into Deep Learning: modern machine learning models
Dec. 7th	*Li-Yang; Wenlong; Wenruo; Zhenyu; Tomoya	Dive into deep learning: recurrent neural networks
Dec. 21st	Li-Yang; *Zhenyu; Wenruo	Dive into deep learning: modern recurrent neural networks
Dec. 28	Li-Yang; Rimsa; *Wenlong; Wenruo; Rojan	Network Science

Useful links

- Entropy, cross-entropy, and KL-divergence (provided by Tim)

First semester on Graph Learning

- 10am-12am, Wed
- Book: “Graph Representation Learning” by William Hamilton, see https://www.cs.mcgill.ca/~wlh/grl_book/
- April 13, 20, 27; May 11, 25; June 8, 22; July 6, 20, 27

Date	**Presenter**	**Material(s)**
April 13th	Zhenyu Zuo	notes_20220413.pdf
April 20th	Yanghepu Li	20220420.pdf

Date	Presenter	Material(s)
April 27th	Wenruo Lyu	20220427-Sec.2.2.2-Sec.2.3.1
May 11th	Zhenyu Zuo	20220511-sec_2.3.1-3.1.4.pdf
May 25th	Yanghepu Li	
June 1th	Zhenyu Zuo	
June 8th	Yanghepu Li	
June 15th	Wenruo Lyu	grl-sec5.3.3-sec.5.6.pdf
July 6th	Wenruo Lyu	grl-sec.7.1.4.3-sec.7.3.3.pdf

First semester on Machine Learning

Date	Presenter	Content(s)
April 13th	Yanghepu Li	Introductions to the usage of Colab
April 20th	Yanghepu Li	Gradient descend and back propogation
April 28th	Yining Xu	Super basic introduction about OpenCV
May 12th	Zhenyu Zuo	Filters, Template Matching, and CNNs.
May 27th	Rojan Basnet	CNN