

LUU HUU PHUC

Curriculum Vitae

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Education

2020 - Now	Kyoto University. M.Sc. in Intelligence Science and Technology. GPA: 4.19/4.3. (Transcript) A+ on advanced courses such as: Computer Vision (project , project), Pattern Recognition (project), Speech Processing, and Language Information Processing ...
2016 - 2020	Kyoto University. B.Eng. in Informatics and Mathematical Science. GPA: 3.57/4.3. (Transcript)
2015 - 2016	Tokyo University of Foreign Studies.
2012 - 2015	Hanoi University of Science, Vietnam. B.Sc. in Mathematics (Talented Program).

Experience

Dec 2020 - Feb 2021	Artificial Intelligence Lab , Fujitsu Laboratories Ltd. Research Internship. Worked on Molecular Property Prediction with Graph Neural Networks. Reviewed papers and implemented various core GNN models: GCN, GAT, GIN, MPNN, and PNA ... Improved the company's model (NNDT) to attend in Molecular Property Prediction competitions. <i>Achievement:</i> Third place in MIT's AICures Open Task (as of May 2021). (Link)
April 2020 - Now	Collective Intelligence Laboratory , Kyoto University. Research Assistant. Worked on the application of Optimal Transport in graph learning. <i>Achievement:</i> Published two papers on the application of Optimal Transport in Link Prediction problems.

Papers

- **Simultaneous Link Prediction on Unaligned Networks Using Graph Embedding and Optimal Transport.** In IEEE DSAA 2020. ([Paper](#), [Pytorch code](#))
Using optimal transport to softly align corresponding nodes between two related graphs and enhance the link prediction performance within each graph. An example of the graphs can be the Facebook and Twitter networks of the same set of users.
- **Inter-domain Multi-relational Link Prediction.** ([Paper](#)) (Accepted to ECML-PKDD 2021)
Extending the above work to multi-relational graph data and aiming to predict hidden links between nodes across different graphs (inter-domain). Several divergences are investigated as regularizers, in which optimal transport shows the best results.

Awards

2015 - 2022	The Japanese Government (MEXT) Scholarship Program. Top 4 Vietnamese students to receive the five-year and two-year grants of undergraduate and master studies (for excellent academic performance).
2013 - 2015	General Electric Foundation Scholar-Leaders Program in Vietnam. Top 7 nationwide students to receive the three-year grant of undergraduate studies.
2012	Second Prize in Vietnam National Mathematical Olympiad (VMO).

Skills

Machine Learning	Graph Mining, Optimal Transport, Convex Optimization, Graph Neural Networks
Tools	Python, Pytorch, Numpy, Pandas

Languages

Vietnamese (Native) • English (Fluent, TOEIC 970/990) • Japanese (Proficient, around N2 level)