SerialExperimentsOlga	a
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February 4, 2022 Version: My First Draft



Department of Mathematics, Informatics and Statistics Institute of Informatics



Bachelor's Thesis

SerialExperimentsOlga

Olga Yakobson

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Institute of Informatics

LMU Munich

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Supervisors Jane Doe and John Smith

February 4, 2022

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Abstract

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Abstract (different language)

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Acknowledgement

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Contents

Introduction

A graph G = (V, E) is a structure of vertices and edges.

Let X_v denote the node feature vector for $v \in V$.

 $y_v o$ associated label to node $v \in V$ $h_v o$ representation vector of $v \in V$

 $\{G_1,...,G_N\}\subset\mathcal{G}\to \text{set of graphs}$ $\{y_1,...,y_N\}\subset\mathcal{Y}\to \text{set of labels}$

 $h_G \rightarrow$ representation vector $y_G = g(h_G)$ predicted label of an entire graph

graph convolutional network graph convolutional network

 $K \to K\text{-th layer of a GNN (K-th iteration)}$ $a_v^{(l)}$

 $(A^{-1})^T$

 $\left(A^{-1}\right)^T$

This is how we cite

[DBLP:journals/corr/abs-2006-04064]

1.0.1 DropOut

[Srivastava2014]

Dropout randomly removes output elements of it's previous hidden layer $H^{(l)}$ based on independant bernoulli random draws with a constant sucess rate at each training iteration.

This can be formulated as follows: $H^{(l+1)} = \sigma(\mathfrak{N}(A)(Z^{(l)} \odot H^{(l)}))$

Where $Z^{(l)}$ is

Related Work

99 Speech 100

— Olga Yakobson (Ph.Neutral)

2.1 Related Work Section 1

Graph Neural Networks have been around for quit a while and have proven very successful in modeling of various graph-related tasks. Such tasks requie dealing with graph data which contains rich relation information among elements.

Therefore graph reasoning models, such as ots of learning tasks require dealing with graph data which contains rich relation information among elements. Modeling physics systems, learning molecular fingerprints, predicting protein interface, and classifying diseases demand a model to learn from graph inputs. In other domains such as learning from non-structural data like texts and images, reasoning on extracted structures (like the dependency trees of sentences and the scene graphs of images) is an important research topic which also needs graph reasoning models. Graph neural networks (GNNs) are neural models that capture the dependence of graphs via message passing between the nodes of graphs. In recent years, variants of GNNs such as graph convolutional network (GCN), graph attention network (GAT), graph recurrent network (GRN) have demonstrated ground-breaking performances on many deep learning tasks. In this survey, we propose a general design pipeline for GNN models and discuss the variants of each component, systematically categorize the applications, and propose four open problems for future research.

- 2.2 Related Work Section 2
- 2.3 Related Work Section 3
- 2.4 Conclusion

System 3

Innovation distinguishes between a leader and a follower.

— Steve Jobs
(CEO Apple Inc.)

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3.1 System Section 1

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Fig. 3.1: Figure example: (a) example part one, (c) example part two; (c) example part three

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3.2 System Section 2

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Fig. 3.2: Another Figure example: (*a*) example part one, (*c*) example part two; (*c*) example part three

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3.3 System Section 3

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3.4 Conclusion

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4

Concepts: This text is here to test a very long title, to simulate the line break behavior, to show that an extremely long tilte also works

Users do not care about what is inside the box, as long as the box does what they need done.

— **Jef Raskin** about Human Computer Interfaces

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4.4 Conclusion

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Conclusion

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5.1 System Section 1

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5.2 System Section 2

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5.3 Future Work

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Intro 6

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This is out of line

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(6.2)

$$\sum \frac{abc}{xyz}$$

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$$\frac{abc}{xyz}$$

6.1 Theoretcal Foundations

This is a section ?? ??This is another section

graph convolutional network Graph convolutional network

Example Appendix

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Alpha	Beta	Gamma
0	1	2
3	4	5

Tab. A.1: This is a caption text.

A.2 Appendix Section 2

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Tab. A.2: This is a caption text.

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List of Figures

List of Tables

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Declaration

You can put your declaration here, to declare that you have completed your visiblely and only with the help of the references you mentioned.				
Munich, February 4, 2022				
Olga Yakobson				