Title

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Abstract—**Write a short and concise abstract here.**

REQUIREMENTS FOR THE PAPER

The thesis needs to be related to the content of the Cognitive Computing course. You may propose new algorithms, refine existing ones, or apply existing algorithms to your field of study. The paper can also be a literature review in cognitive computing or AI-related fields (from the recent three years).

Requirements:

1) The paper must be supported by experiments (a literature review doesn't need to include experiments, but there must be sufficient literature support), and relevant references need to be cited. For references, please use the IEEETran template included in this template.
2) You may write in Chinese or English, with at least 6 pages (excluding references) of content. Chinese Word template and LaTeX templates in both Chinese and English have been uploaded onto the course website. You may choose to use any one of them.
3) No plagiarism of previous papers on this course or published articles nor direct translation of such articles is allowed. You will fail this course if caught doing any of the misbehaviors above.

Note:

1) Before introducing others' work, make sure to spend a certain amount of space to clarify the problem definition.
2) For the methods proposed by yourself or the methods mentioned in the literature review, in addition to describing the method and experimental results, you can focus on analyzing the advantages and disadvantages of the method (according to your own understanding), and try to give thoughts on possible improvements.
3) Please check carefully whether all cross-references are compiled successfully. Avoid "?" appearing in the text, and also minimize typos and grammatical errors.
4) The necessary part of the references: author, title, publication journal or conference, publication time.

Extra points for:

1) Innovative new algorithms,
2) solutions to problems that have practical/scientific values, and
3) comprehensive and insightful surveys that track state-of-the-art progress.

The following sections are for your reference and can be adjusted to your needs.

I. INTRODUCTION

If you are writing in Chinese, please use Chinese punctuations throughout the paper, with no English except for technical terms; for English papers, please use English punctuations throughout, without any Chinese.

II. RELATED WORK

Cite other papers like GCNN[1], GAT[2].

III. MODEL

It is better to have figures and formulas in this part.

IV. EXPERIMENTS

The paper should be well supported by your experiments.

V. CONCLUSION

The conclusions should be stated clearly.

REFERENCES

[1] T. N. Kipf and M. Welling, "Semi-supervised classification with graph convolutional networks," in *ICLR*, 2017.
[2] P. Veličković, G. Cucurull, A. Casanova, A. Romero, P. Lio, and Y. Bengio, "Graph attention networks," in *ICLR*, 2018.