CIE 6020 INFORMATION THEORY (SPRING, 2018)

Course Report: Profile-Guided Source Coding on Dual-Compilation

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Profile-Guided Source Coding on Dual-Compilation

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Abstract

Type your abstract about this report here.

1 What should you write?

Read several papers related to information theory in general, and write a reading report. For example, Shannon's 1948 paper [1], and some recent papers about machine learning [2], [3].

For example, you may write a summary of the research in the papers using your own words. It is better that you can have your own reflection.

2 What kinds of papers should you choose?

You may select papers from our reading list, or choose other papers that closely related to information theory.

3 PDF requirements

Please typeset your report using LaTex. Only electronic submissions in form of a PDF file will be accepted. The PDF file has to be PDF/A compliant. A common problem is missing fonts. Make sure that all fonts are embedded. (In some cases, printing a PDF to a PostScript file, and then creating a new PDF with Acrobat Distiller, may do the trick.)

4 Conclusion

Write your conclusion here.

References

[1] Claude E Shannon. "A mathematical theory of communication". In: *Bell Systems Technical Journal* (1948).

[2] Soheil Feizi, Changho Suh, Fei Xia, et al. "Understanding GANs: the LQG Setting". In: *arXiv preprint arXiv:1710.10793* (2017).

[3]   Vivek F Farias, Ciamac C Moallemi, Benjamin Van Roy, et al. "Universal reinforcement learning". In: *IEEE Transactions on Information Theory* 56.5 (2010), pp. 2441–2454.