Literature Review Template (Tufte Handout)

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2018-01-06

Introduction

- Key goal(s) of the paper

Main results

- Should note the specific results and their novelty

Key assumptions made

- Are any of these assumptions checkable from the data?
- Which of these assumptions could be relaxed?

Primary proof techniques/ math used

- Summarize and sketch only
- Anything new/ novel that hasn't been used before

Supporting/ background papers referenced

- Sort by descending relevance, chronologically e.g. (Cribben and Yu 2015) , (Miwakeichi et al. 2004) and (Qiao, Guo, and James 2017)
- Why was this paper referenced, should we dig further into it? Why?

Key improvements, next steps, open problems

- Split by those that the authors have identified
- New open problems that we think of

Simulation of Results, Comment on reproducibility here

- Did the authors run any simulations to test the validity of the results?
- If so, are they reproducible? Any packages and supporting code? List it here?
- Are there any simulations we can run in `R` or `Python` here to test the validity of these results?

References

Cribben, Ivor, and Yi Yu. 2015. "Estimating Whole Brain Dynamics Using Spectral Clustering." *arXiv:1509.03730 [Stat]*, September. http://arxiv.org/abs/1509.03730.

Miwakeichi, Fumikazu, Eduardo Martínez-Montes, Pedro A. Valdés-Sosa, Nobuaki Nishiyama, Hiroaki Mizuhara, and Yoko Yamaguchi. 2004. "Decomposing EEG Data into Space–Time–Frequency Components Using Parallel Factor Analysis." *NeuroImage* 22 (3):1035–45. https://doi.org/10.1016/j.neuroimage.2004.03.039.

Qiao, Xinghao, Shaojun Guo, and Gareth M. James. 2017. "Functional Graphical Models." *Journal of the American Statistical Association*, October, 0–0. https://doi.org/10.1080/01621459.2017.1390466.