

# FancyMc Moves

## Fusion Moves for Multicut Objectives

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Paper ID \*\*\*\*

### Abstract

*Multicuts rule.*

## 1. Introduction

The tale of the multicut

### 1.1. Related Work

#### 1.1.1 Multicut

- Andres *et al.* [1]
- Kappes *et al.* [5]
- Bagon and Galun [2]
- Yarkony *et al.* [6]
- Beier *et al.* [3]

#### 1.1.2 Fusion Moves

Move making algorithms, in particular fusion moves, have become increasingly popular for energy minimization [?, 4]. For many large scale computer vision applications fusion moves lead to good approximations with state of the art any time performance [4].

## 2. Name of My Method (Union Fusion Cut)

Global optimal solvers for multicut do not scale beyond ??? [?]. Good approximate solvers for planar graphs exist [3, 6] but have difficulties to find good solutions for non planar graphs [3].

### 2.1. Proposal Generators

### 2.2. Fusion Move Solver

## 3. Experiments

## 4. Conclusion

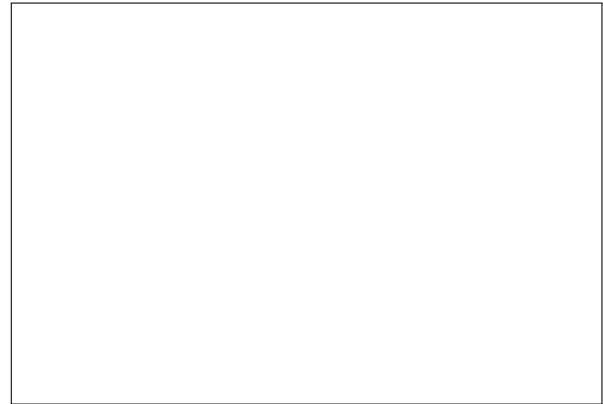


Figure 1: Example of caption. It is set in Roman so that mathematics (always set in Roman:  $B \sin A = A \sin B$ ) may be included without an ugly clash.

## References

- [1] B. Andres, J. H. Kappes, T. Beier, U. Köthe, and F. A. Hamprecht. Probabilistic image segmentation with closedness constraints. In *ICCV*, pages 2611–2618. IEEE, 2011. 1
- [2] S. Bagon and M. Galun. Large scale correlation clustering optimization. *CoRR*, abs/1112.2903, 2011. 1
- [3] T. Beier, T. Kroege, J. H. Kappes, U. Koethe, and F. Hamprecht. Cut, Glue & Cut: A Fast, Approximate Solver for Multicut Partitioning. In *IEEE Conference on Computer Vision and Pattern Recognition 2014*, 2014. 1
- [4] J. H. Kappes, T. Beier, and C. Schnörr. Map-inference on large scale higher-order discrete graphical models by fusion moves. In *International Workshop on Graphical Models in Computer Vision*, 2014. Oral. 1
- [5] J. H. Kappes, M. Speth, B. Andres, G. Reinelt, and C. Schnörr. Globally optimal image partitioning by multicuts. In *EMM-CVPR*, pages 31–44. Springer, 2011. 1
- [6] J. Yarkony, A. Ihler, and C. C. Fowlkes. Fast planar correlation clustering for image segmentation. In *ECCV*. Springer, 2012. 1

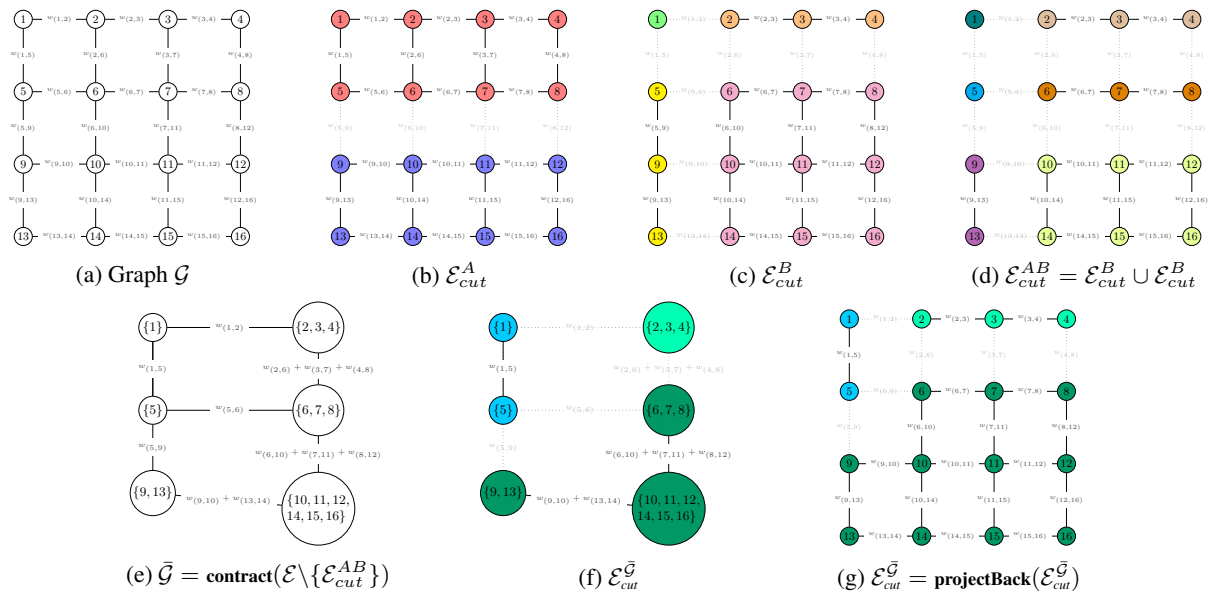


Figure 2: Describe Method here