

1. In the third paragraph on page 7, the sentence “ First we need to know how to assign memberships, π_i , for each node i .” is not very clear. Does membership mean membership to a block? The next sentence hints that. Replacing memberships by block membership might help. Or mentioning somewhere what the form of π_i is also might help. For example is it a K -length vector or a scalar in $1,...,K$?
2. In page 8, second paragraph, first line, you start with “Since we are using a cross-validation procedure...” You haven’t spoken about Cross validation in this section before. It might be a good idea to give a reference to previous sections or wherever you mentioned it before.
3. Similarly again later in the paragraph you mention spectral clustering but do not mention for what you might be using it.
4. Page 10, section 3.2 first paragraph last sentence, “ We also want to consider how well the block memberships are being estimated, whether or not a method chose the correct number of blocks.” This is also mentioned in the previous sentence where “model selection accuracy, defined to be the percentage of times a given method selected the true number of blocks, K ” Or by “how well the block memberships are being estimated” do you mean “how well π_i s are being estimated.” If so you can cut out the second half of the sentence and just say, “We also want to consider how well the block memberships are being estimated.” This can also be moved to the next paragraph as a topic sentence for the paragraph.
5. Section 3.2 second paragraph first line can be changed to, “It’s possible for a method to choose the true number of blocks, but still result in block memberships that are inaccurate.” Just changing the tense a little to go with the rest of the paragraph.
6. The sentence below equation 4 on page 11 can be made, “This normalized version equals 1 if the assignments are exactly the same, and equals 0 if the assignments come from independent distributions.” It helps in maintaining symmetry in the two sentences for clarity.
7. The last paragraph on page 12, before 3.3 has a few typos and grammatical errors.

Over all the section is written very nicely. Most of the sentences and paragraphs are very well structured. I could not find too many things to complain about in the writing. So most of my comments are very minor and almost inconsequential.