

# Manuscript wording checklist

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## General

- Define all notations;
- Be concise; See **Concise**;
- Only the first letter is capitalized in (sub-)titles;
- Plural in (sub-)titles;
- Explain the terms in the writing of proofs;

## Concise

- “This paper”  $\rightarrow$  “We”;
- “On one/the other hand” follows at least two sentences;
- “Simulations to assess ...”  $\rightarrow$  “Simulations”;
- “refer to”  $\rightarrow$  “represent”;
- “it is equivalent to show there exists...”  $\rightarrow$  “it suffices to construct...”;
- “not identical”  $\rightarrow$  “distinct”

## Sentence structure

- Positive is better than passive;
- “Case 1 (respectively, Case 2) has  $x_1$  (respectively,  $x_2$ )”;
- “See Example 1 below”;
- “share the same spirit as in other methods...”;
- “for all  $k \in [K]$ ” before the equation;

## Grammar and words

- Singular and plural;
- Avoid “can”;
- Spelling:
  - “behaviour” → “behavior”;
  - “polar-coordinate based”;
- Compound:
  - “zero-mean”;
  - “sub-Gaussianity parameter”;
  - “Sub-Algorithm” → “Sub-algorithm”
- Phrase:
  - “as following” → “as follows”;
  - “clustering assignment” → “cluster assignment”;
  - “regardless” → “regardless of”;
  - “referred as” → “referred to as”;
  - “equation only holds for” → “equation holds only for”;
  - “only have” → “have only”;
  - “Thus” → “Therefore”?

## Punctuation

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## Questions:

- Any difference between “whereas” and “however”?
- Usage of articles? Page 3, “achieves sub-optimal polynomial rate”?
- When to use italic style?
- When to use ; to connection two sentences?
- $M' \in \{0, 1\}^{4 \times 2}$ ?
- Why “cluster assignment”?
- “update by ...” “define as ...”? “follows from ...” “follows by...”?
- “demand” → “requirement”?

- When to use clause before the main sentence? “ignoring the logarithmic terms” in Page 13?
- “cluster number” or “number of clusters”?
- “follows by” vs “follows from”?
- “low noise level”? Page 16
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## References