Dear authors,

Thank you for revising your chapter and considering our comments/suggestions. We acknowledge and appreciate the edits you have made. However, few points remain to be addressed (hereby referring to "diff_Morales_2025_DimensionalityReduction" document with track-changes).

1) **Abstract, p.1, l.5:** change "remains" to "remain".

2) **Dataset, p.3, l.75:** correct "suchat that" to "such that".

3) **SVD, p.5, l.88:** Ref [31] - (Afra and Gildin, 2016) – it appears that in the main text you switched from referring to [31] to referring to [32], however Ref. [31] still appears on the Reference list. Is this reference still being used? If yes, put a place holder in the main text, if not, remove from the list.

4) **SVD, p.6, l.117:** Obviously you introduced a new symbol τ, as truncation value, to distinguish from rank r. However, the proportion curve in Figure 3 is still annotated with "r", which now should be "τ", correct? Also, the annotation of both, x- and y-axes should use "τ" not "k" indexing… I believe after introducing τ, as truncation value, the referral should be to "τ singular values". Please clarify this and make necessary corrections to the annotations and footnotes of Figures 3, 4 and 5.

5) **PCA, p.11, l.172:** The index "k" is introduced as the number of leading principal components to perform back transformation. Why in the Example section (p.12, l.181), "k" switches to "r"? Then in the same section (p.12, l.185) "r" reverts to "k". This appears very confusing and needs to be justified or better, unified. Accordingly, please make necessary corrections to the annotations and footnotes of Figures 8, 9 and 10.

6) **DWT, Example, p.17, l.231**: please correct "multi-resoltuion" to "multi-resolution".

7) **DWT, Figure 12, p.18**: The x-axis label should not state "Percent", since it's been normalized to 1 (unity). It's better to use "Ratio" or "Proportion" or, simply use "k".

8) **Dictionary Learning, p.21**: Do you mean a "corpus", in the context of large language models? Please elaborate on parallelism. (This request has previously not been addressed).

9) **Dictionary Learning, Example, p.22, l.284**: Please rewrite "reconstruct" to "reconstruct it".

10) **DWT, Figure 16, p.23**: The x-axis should be labeled as "Number of atoms in the dictionary", not as "SSIM by number of atoms in the dictionary".

11) **Appendices**: They should be titled as Appendix A:, Appendix B: etc, not as A, B, … Please correct.

12) **References**: please verify the consistency of the list with reference to [31], as noted in #3) above.