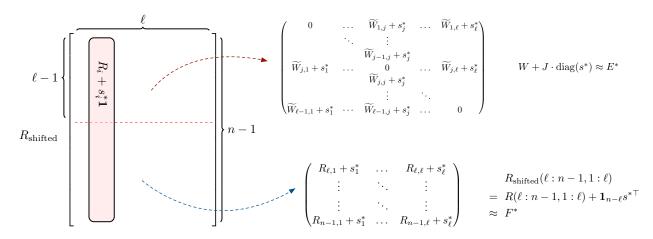
- We thank the reviewers for their valuable suggestions. Please find our answers (A) for each reviewer (R) below.
- 2 **R1, R2**: Clarity and technical explanations
- 3 A: In order to improve the clarity of the technical discussion in section 4, the final version will include: a more
- 4 detailed high-level overview at the beginning, more English explanations of mathematical expressions (esp. in the last
- 5 subsection), and another figure similar to Figure 1 illustrating the algorithm (see below).



- 6 R3: Generalization of the "shift idea" to other preference models
- A: The "shift idea" relies on estimating the difference of distances $D_{ij} D_{ik}$. This determines the distances up to
- 8 some constant shift, so we estimate the proper shifts in order to recover the distances. This idea can be applied to any
- 9 linear triplet model which says j is farther from i than k with probability $P_{ijk} = F(D_{ij} D_{ik})$, where F is the CDF
- of some 0 symmetric random variable. If we can estimate the difference of distances then the rest of the algorithm
- carries through. The two most common models of this form (see [1]) are the BTL model (F is the logistic CDF) and the
- carries though. The two most common models of this form (see [1]) are the BTE model (1 is the logistic CD1) and the
- Thurstone model (F is the normal CDF). In future work, it may be possible to extend these general landmark techniques
- to more structured embedding settings such as in [2].

14 References

- Manuela Cattelan. Models for paired comparison data: A review with emphasis on dependent data. *Statistical Science*, pages 412–433, 2012.
- 17 [2] Shuo Chen, Josh L Moore, Douglas Turnbull, and Thorsten Joachims. Playlist prediction via metric embedding. In
 18 *Proceedings of the 18th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages
 19 714–722. ACM, 2012.