

Supplementary Materials for “Multilinear Common Component Analysis via Kronecker Product Representation”

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S1 Plots of RER for the Cropped AR and MNIST datasets

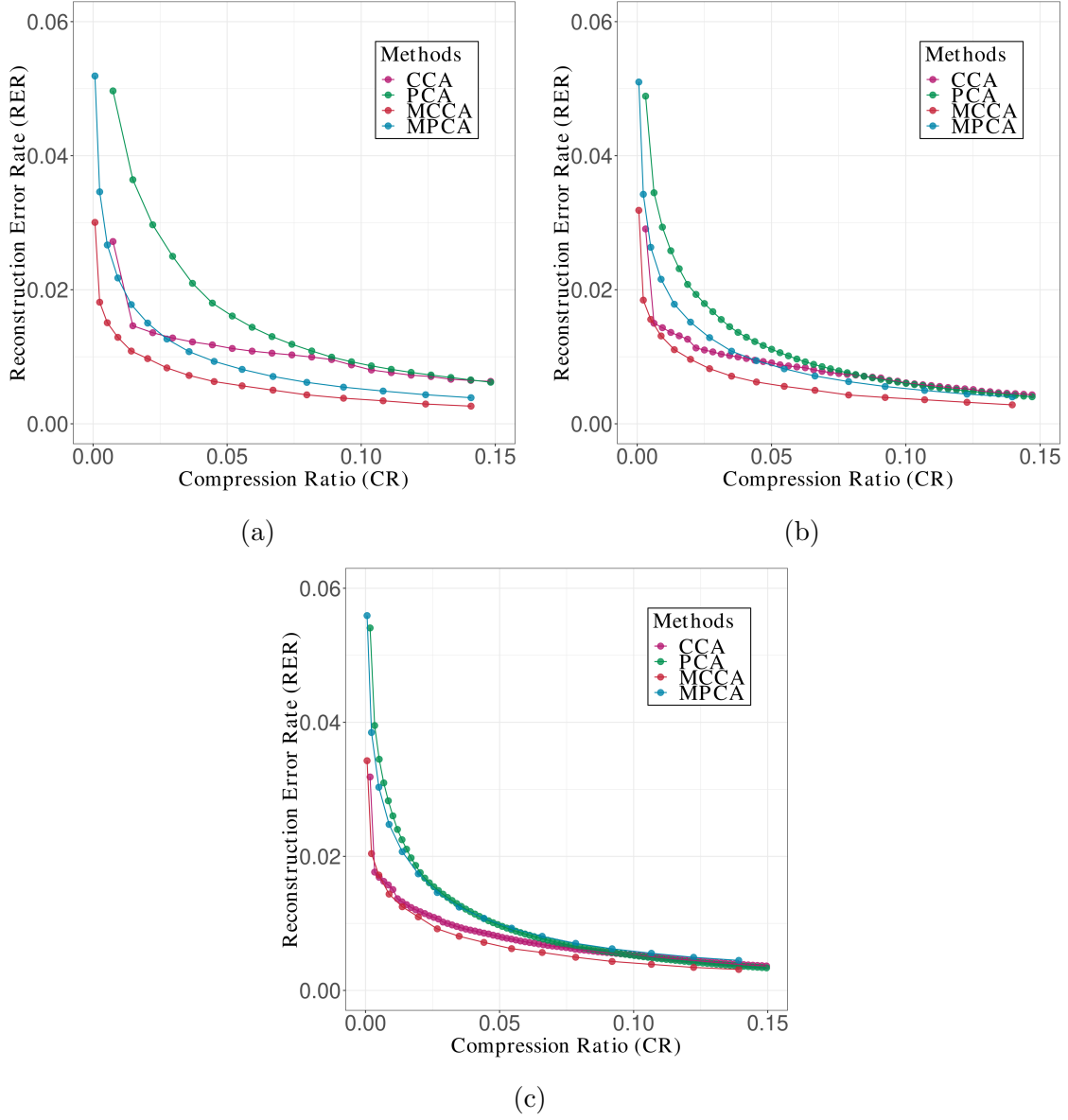


Figure S1: Plots of RER for the Cropped AR dataset for various group sizes: (a) Small; (b) Medium; and (c) Large.

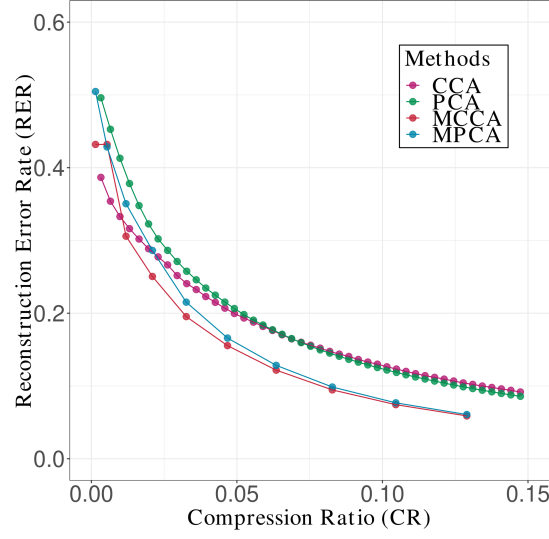


Figure S2: Plots of RER for the MNIST dataset.

S2 Figures for Comparisons of Performance by Initialization Method

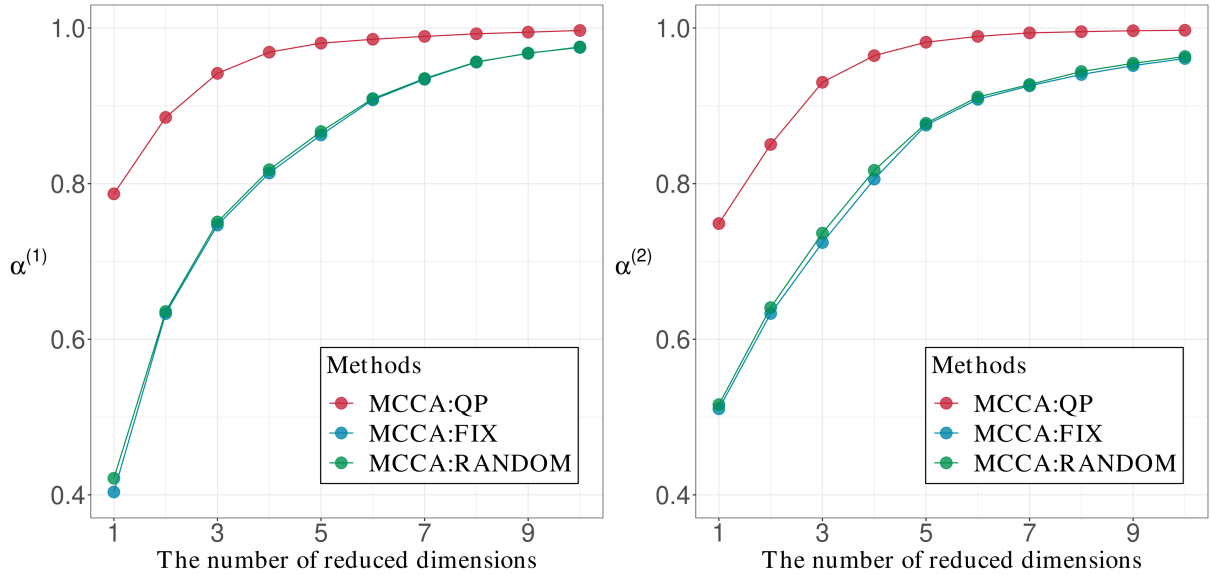


Figure S3: Comparisons of $\alpha^{(1)}$ and $\alpha^{(2)}$ computed using the initial values obtained from the initializations MCCA:QP, MCCA:FIX, and MCCA:RANDOM with the AT&T(ORL) dataset for the small group size.

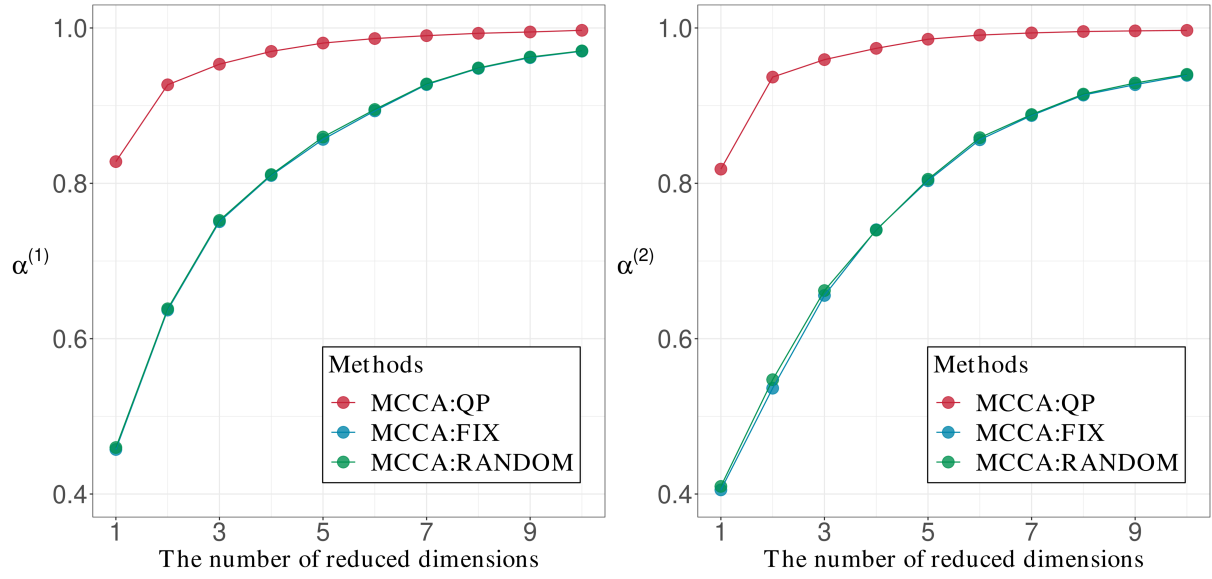


Figure S4: Comparisons of $\alpha^{(1)}$ and $\alpha^{(2)}$ computed using the initial values obtained from the initializations MCCA:QP, MCCA:FIX, and MCCA:RANDOM with the AT&T(ORL) dataset for the large group size.

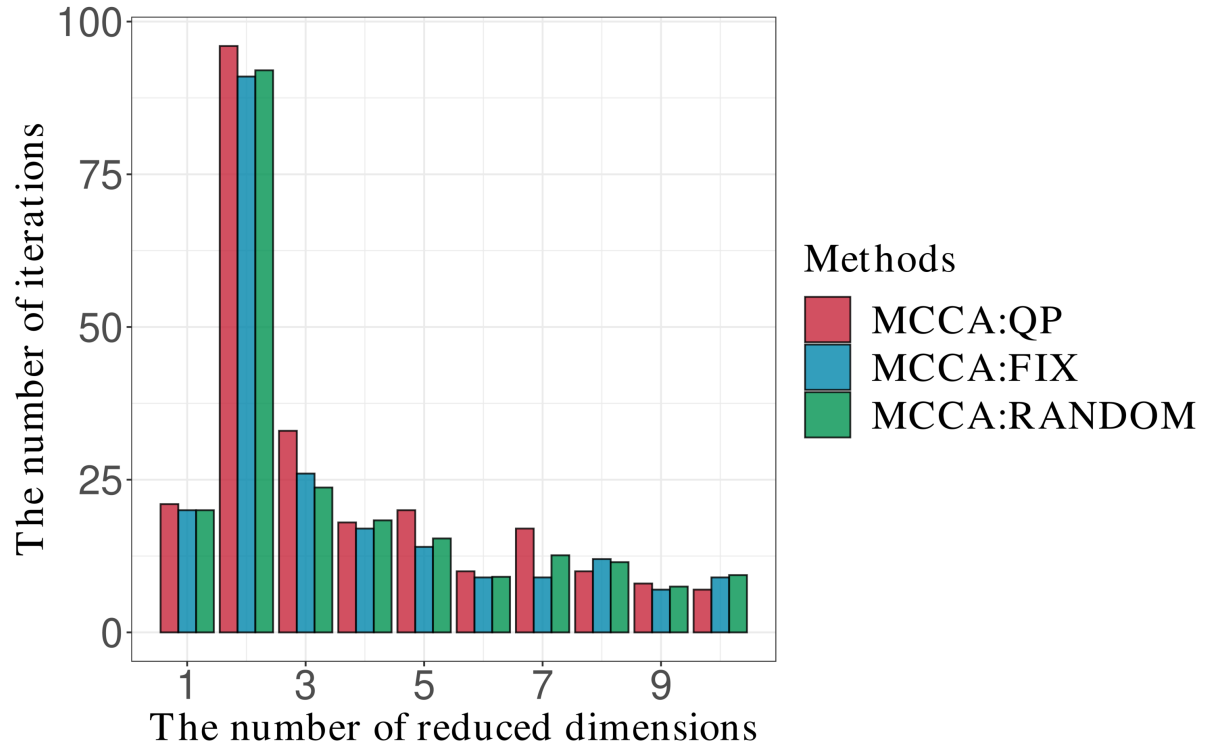


Figure S5: Comparison of the number of iterations when the initializations were performed by MCCA:QP, MCCA:FIX, and MCCA:RANDOM with the AT&T(ORL) dataset for the small group size.

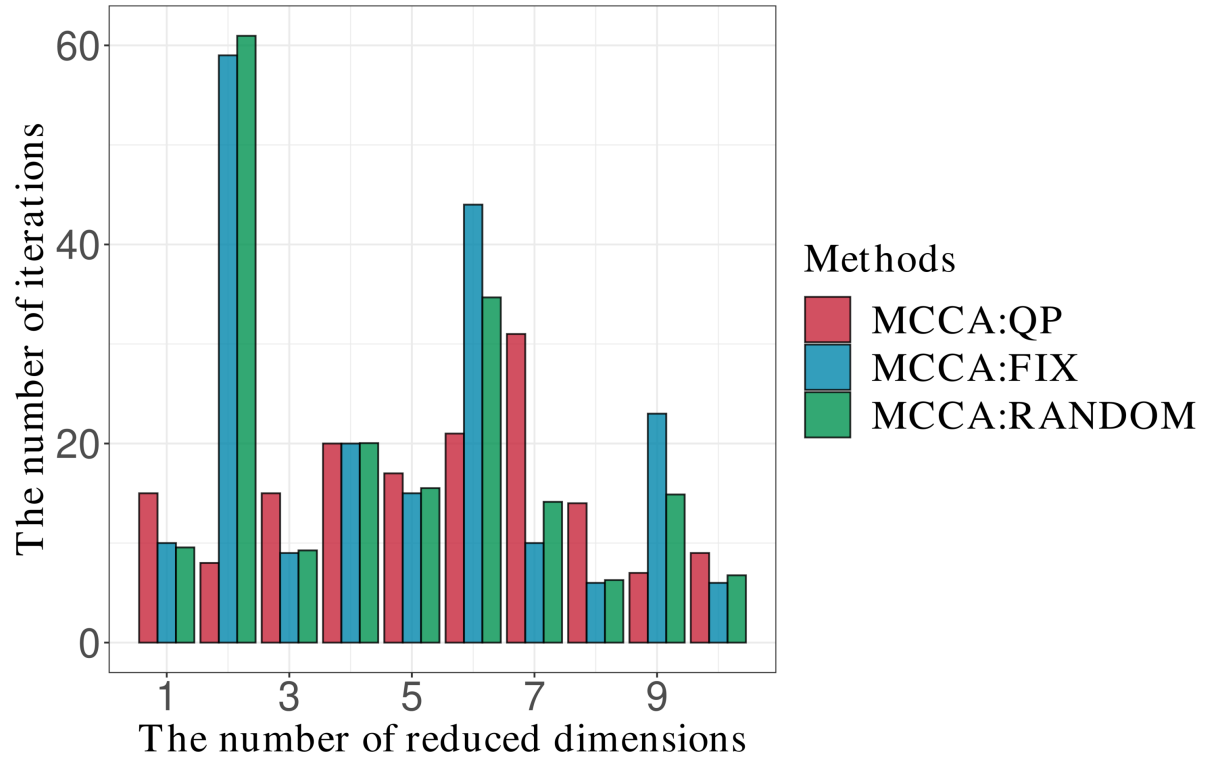


Figure S6: Comparison of the number of iterations when the initializations were performed by MCCA:QP, MCCA:FIX, and MCCA:RANDOM with the AT&T(ORL) dataset for the large group size.