Two-Step Kernel Method Power Analysis (Dist1=Hamming, Dist2=Aitchison): 20 Cell Types with 4 Rare Cell Types Kelvin Njuki

2024-11-18

0.1 Zero Imputation Method vs Two-Step Kernel Method (Dist1 = Hamming, Dist 2 = Aitchison) for 20 Cell Types with 4 Rare Cell Types.

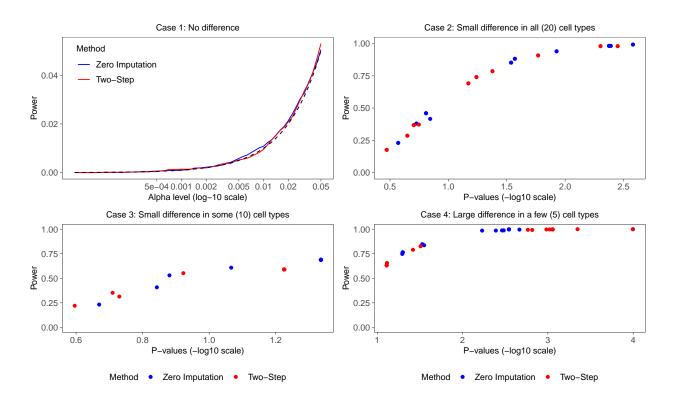


Figure 1: Type I error and power plots for zero-imputation method and two-step kernel method (Dist1 = Hamming, Dist 2 = Aitchison). Maxeffects used were: case 2 = 0.004, case 3 = 0.004 and case 4 = 0.009

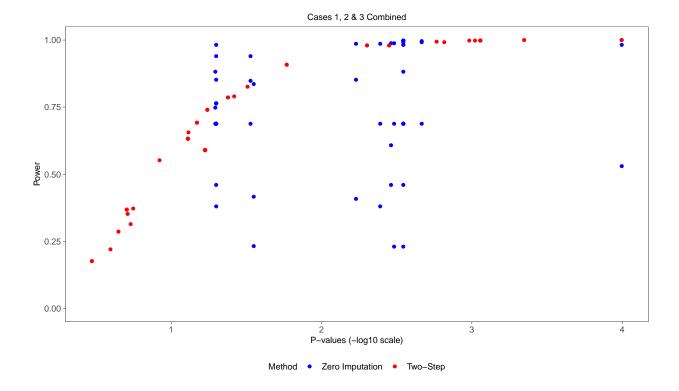


Figure 2: Power plot for all 3 cases for zero-imputation method and two-step kernel method (Dist1 = Hamming, Dist 2 = Aitchison). Maxeffects used were: case 2 = 0.004, case 3 = 0.004 and case 4 = 0.009

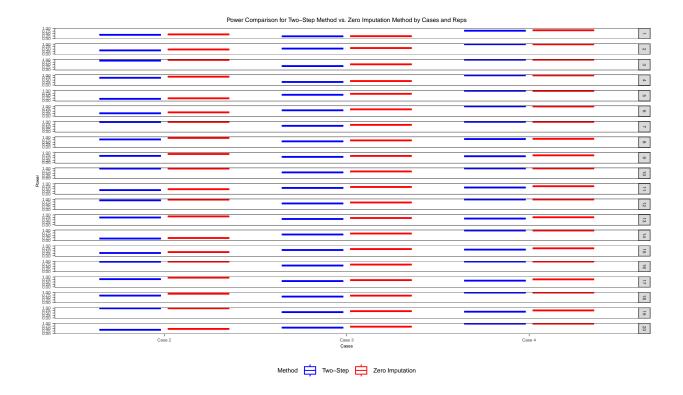


Figure 3: Power plot for all 3 cases for zero-imputation method and two-step kernel method (Dist1 = Hamming, Dist 2 = Aitchison). Maxeffects used were: case 2 = 0.004, case 3 = 0.004 and case 4 = 0.009

- 0.2 Zero Imputation Method vs Two-Step Kernel Method (Dist1 = Jaccard, Dist 2 = Aitchison) for 20 Cell Types with 4 Rare Cell Types.
- 0.3 This was for 100 simulations only. Results with 10000 simulations are still running and will be ready by 3pm.

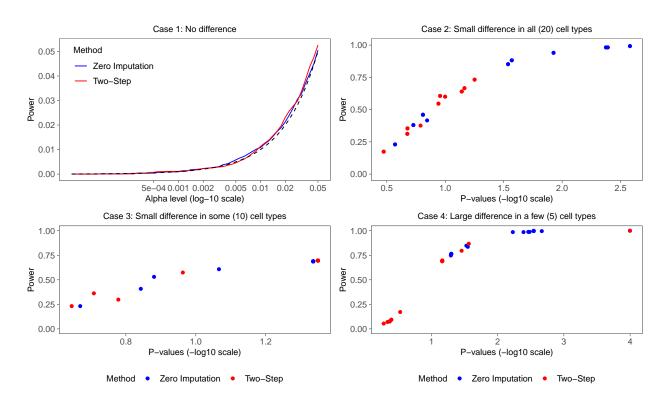


Figure 4: Type I error and power plots for zero-imputation method and two-step kernel method (Dist1 = Jaccard, Dist 2 = Aitchison). Maxeffects used were: case 2 = 0.004, case 3 = 0.004 and case 4 = 0.009

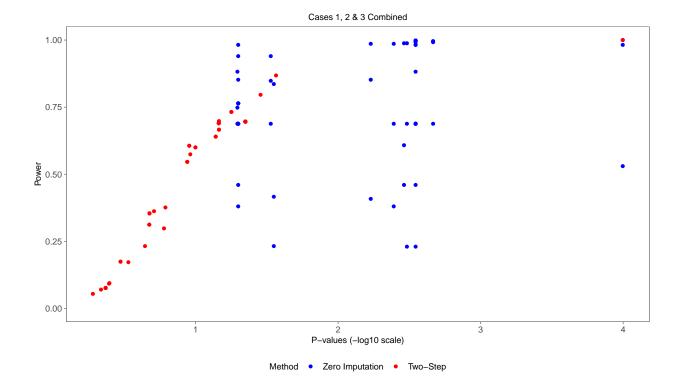


Figure 5: Power plot for all 3 cases for zero-imputation method and two-step kernel method (Dist1 = Jaccard, Dist 2 = Aitchison). Maxeffects used were: case 2 = 0.004, case 3 = 0.004 and case 4 = 0.009

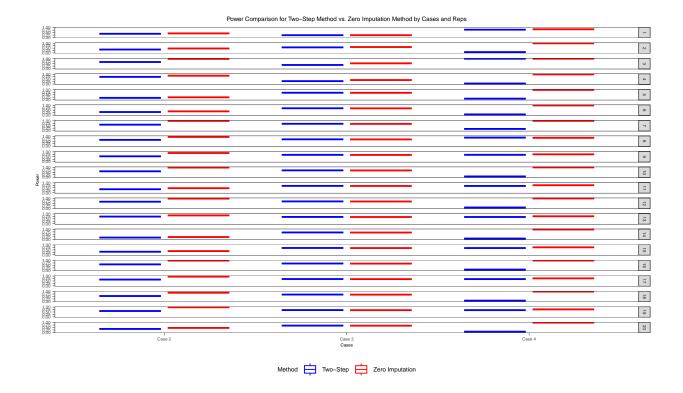


Figure 6: Power plot for all 3 cases for zero-imputation method and two-step kernel method (Dist1 = Jaccard, Dist 2 = Aitchison). Maxeffects used were: case 2 = 0.004, case 3 = 0.004 and case 4 = 0.009