Simulations

Michael Seo

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## Simulation 1

## false em mse true em mse treatment mse  
## glmm oracle 0.000000e+00 0.002907829 0.01154284  
## glmm full 3.197482e-03 0.003371513 0.01155221  
## naive step 1.974096e-03 0.004902805 0.01165850  
## naive lasso 6.403569e-04 0.005473430 0.01163829  
## ridge 6.236684e-04 0.005096310 0.01164020  
## glmmLasso 3.179574e-05 0.008693812 0.09286987  
## patient specific trt mse continuous EM se binary EM se  
## glmm oracle 0.008720226 0.05302434 0.05287569  
## glmm full 0.020173163 0.05915827 0.05388618  
## naive step 0.017593094 0.05421748 0.05318570  
## naive lasso 0.013651118 NaN NaN  
## ridge 0.013172092 NaN NaN  
## glmmLasso 0.055435838 NaN NaN  
## treatment se  
## glmm oracle 0.10055948  
## glmm full 0.10048636  
## naive step 0.05310695  
## naive lasso NaN  
## ridge NaN  
## glmmLasso NaN

## false em mse true em mse treatment mse patient specific trt mse  
## bayesLASSO 0.0002401184 0.005845589 0.01158522 0.01246918  
## SSVS 0.0005106872 0.004600497 0.01156404 0.01223118  
## continuous EM se binary EM se treatment se  
## bayesLASSO 0.03526094 0.03571031 0.1573486  
## SSVS 0.04639494 0.04612232 0.1579950

## Simulation 2

## false em mse true em mse treatment mse  
## glmm oracle 0.000000e+00 0.002907829 0.01154284  
## glmm full 3.197482e-03 0.003371513 0.01155221  
## naive step 1.934953e-03 0.003207245 0.01166078  
## naive lasso 9.128853e-04 0.005720673 0.01164194  
## ridge 2.879898e-03 0.005259184 0.01164225  
## glmmLasso 5.895511e-05 0.262565633 0.11294478  
## patient specific trt mse continuous EM se binary EM se  
## glmm oracle 0.008720226 0.05302434 0.05287569  
## glmm full 0.020173163 0.05915827 0.05388618  
## naive step 0.015956222 0.05450465 0.05338846  
## naive lasso 0.014758842 NaN NaN  
## ridge 0.020875015 NaN NaN  
## glmmLasso 0.315819700 NaN NaN  
## treatment se  
## glmm oracle 0.10055940  
## glmm full 0.10048638  
## naive step 0.05311881  
## naive lasso NaN  
## ridge NaN  
## glmmLasso NaN

## false em mse true em mse treatment mse patient specific trt mse  
## bayesLASSO 0.002136513 0.003651211 0.01162494 0.01697848  
## SSVS 0.001318284 0.003191480 0.01158870 0.01380434  
## continuous EM se binary EM se treatment se  
## bayesLASSO 0.05893291 0.05440932 0.1576081  
## SSVS 0.05710974 0.05380942 0.1573218

## Simulation 3

## false em mse true em mse treatment mse  
## glmm oracle 0.000000e+00 0.038939043 0.04483556  
## glmm full 4.103060e-02 0.046507705 0.05116595  
## naive step 2.305246e-02 0.035179110 0.04775814  
## naive lasso 3.522460e-03 0.012675995 0.04634291  
## ridge 2.213648e-08 0.009989504 0.04590467  
## glmmLasso 1.850136e-04 0.008614486 0.17938901  
## patient specific trt mse continuous EM se binary EM se  
## glmm oracle 0.06136450 0.1883635 0.1841258  
## glmm full 0.21392734 0.2101448 0.1905938  
## naive step 0.14158736 0.1947887 0.1858254  
## naive lasso 0.04930075 NaN NaN  
## ridge 0.03318611 NaN NaN  
## glmmLasso 0.09944114 NaN NaN  
## treatment se  
## glmm oracle 0.1928268  
## glmm full 0.1968867  
## naive step 0.1863684  
## naive lasso NaN  
## ridge NaN  
## glmmLasso NaN

## false em mse true em mse treatment mse patient specific trt mse  
## bayesLASSO 0.001660757 0.008974564 0.05439898 0.04308259  
## SSVS 0.004679551 0.011914128 0.05578716 0.05825764  
## continuous EM se binary EM se treatment se  
## bayesLASSO 0.08532513 0.08569318 0.3017479  
## SSVS 0.11144848 0.10907039 0.3031316

## Simulation 4