LatentGold Code for Manuscript: Response Patterns in A Multi-Day Diary Survey: Implications for Adaptive Survey Design

Code for LCA analysis:

options

 maxthreads=2;

 algorithm

 tolerance=1e-008 emtolerance=0.01 emiterations=5000 nriterations=500 ;

 startvalues

 seed=0 sets=100 tolerance=1e-005 iterations=100;

 bayes

 categorical=1 variances=1 latent=1 poisson=1;

 montecarlo

 seed=0 sets=0 replicates=500 tolerance=1e-008;

 quadrature nodes=20;

 missing includeall;

 output

 parameters=first betaopts=wl standarderrors profile probmeans=posterior

 bivariateresiduals estimatedvalues=model;

 outfile 'step3\_lca-6.csv'

 classification keep snapwhenhh, sex, log\_income, employed, time\_gap, hhsize,

 inboundcalls, outboundcalls, jun\_aug, num\_screener,

 num\_initial, num\_all, init\_time, refuseScreener, refuseInitial,

 refuseTotal, agecat, educat, marital, race, relation, num\_cat,

 init\_time\_cat;

variables

 dependent u1 nominal, u2 nominal, u3 nominal, u4 nominal,

 u5 nominal, u6 nominal, u7 nominal;

 latent

 Cluster nominal 6;

equations

 Cluster <- 1;

 u1 <- 1 + Cluster;

 u2 <- 1 + Cluster;

 u3 <- 1 + Cluster;

 u4 <- 1 + Cluster;

 u5 <- 1 + Cluster;

 u6 <- 1 + Cluster;

 u7 <- 1 + Cluster;

Code for profile analysis (performed separately for each variable; code for initial interview time variable presented below):

options

 maxthreads=2;

 algorithm

 tolerance=1e-008 emtolerance=0.01 emiterations=500 nriterations=100 ;

 startvalues

 seed=0 sets=16 tolerance=1e-005 iterations=50;

 bayes

 categorical=1 variances=1 latent=0 poisson=1;

 montecarlo

 seed=0 sets=0 replicates=500 tolerance=1e-008;

 quadrature nodes=15;

 missing includeall;

step3 proportional bch;

output

 parameters=first betaopts=wl standarderrors=robust profile probmeans=posterior

 estimatedvalues=model;

variables

 dependent init\_time continuous;

 latent Cluster nominal posterior = ( clu#1 clu#2 clu#3 clu#4 clu#5 clu#6 ) ;

equations

 init\_time <- 1 + Cluster;

 init\_time | Cluster;