## Bayesian Model Averaging for Simulated Impression Change Equations

Mao Hu

## Introduction

## Simulating Data

Figure 1: Plot of simulation model coefficients

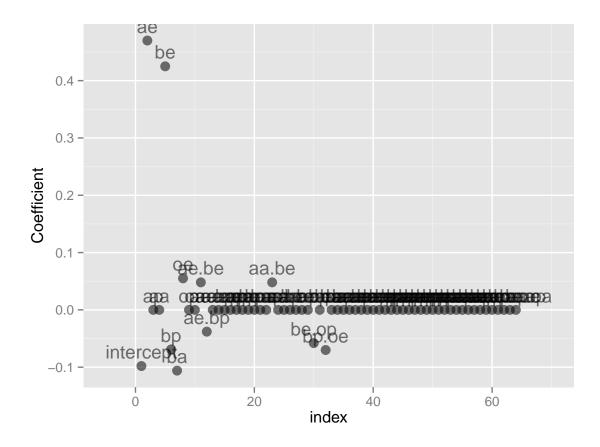
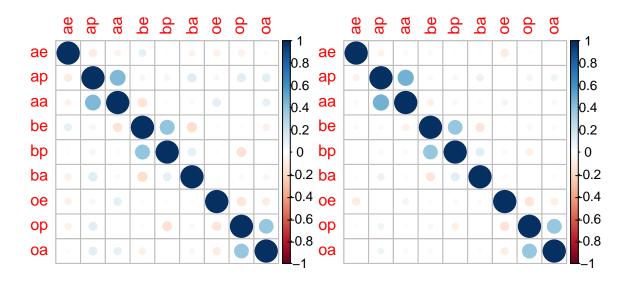


Figure 2: Correlation plots Simulated data (left) and Duke '10 (right)



## Results

Table 1: Variables identified from training set, by procedure

Where the simulation model has 10 true predictors, out of 63 total

Procedures	True positives	False positives	True negatives	False negatives	Sensitivity	Specificity
stepwise	9	15	38	1	0.9	0.72
BMA	6	2	51	4	0.6	0.96
ANOVA	4	1	52	6	0.4	0.98

Table 2: Mean square prediction error on test set (n=500)

Procedures	MSE	
stepwise	0.532	
BMA median model	0.509	
dichotomized ANOVA	0.509	