

ONLINE APPENDIX FOR "CORE DETERMINING CLASS AND INEQUALITY SELECTION"

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In this supplement additional material for the artical "Core Determining Class and Inequality Selection" is presented. It contains figures and tables mentioned in the main text.

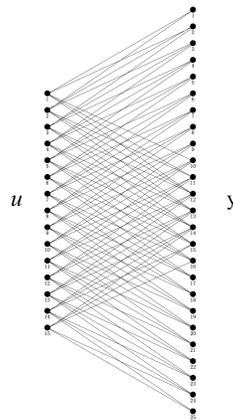


FIG 1. *Correspondence map with size 15×25*

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Number of experiments (M)	100	
Number of events \times number of outcomes ($d_1 \times d_2$)	15×25	
Number of inequalities in true model	471	
Conservative bound of acceptance rate ($1 - \alpha$)	0.95	
Sample size (n)	500	2000
Average λ	0.0710	0.0355
Frequency of Coverage ($\eta = 0$)	97%	99%
Avg. number of inequalities selected ($\eta = 0$)	184.66	187.42
Max. number of inequalities selected ($\eta = 0$)	241	234
Min. number of inequalities selected ($\eta = 0$)	145	92
Frequency of Coverage ($\eta = 0.1$)	99%	100%
Avg. number of inequalities selected ($\eta = 0.1$)	32.59	86.02
Max. number of inequalities selected ($\eta = 0.1$)	43	145
Min. number of inequalities selected ($\eta = 0.1$)	27	27
Frequency of Coverage ($\eta = 0.2$)	99%	100%
Avg. number of inequalities selected ($\eta = 0.2$)	26.73	56.69
Max. number of inequalities selected ($\eta = 0.2$)	28	108
Min. number of inequalities selected ($\eta = 0.2$)	24	27
Running time (sec/instance)	87	146

TABLE 1
Results of Monte-Carlo Experiments on Main Example

Number of inequalities selected in L^0	79
Number of inequalities selected in L^1	211
Number of inequalities that L^0 model selected in L^1 , $\eta = 0$	79
Number of inequalities that L^0 model selected in L^1 , $\eta = 0.05$	78
Number of inequalities that L^0 model selected in L^1 , $\eta = 0.10$	78
Number of inequalities that L^0 model selected in L^1 , $\eta = 0.15$	77
Number of inequalities that L^0 model selected in L^1 , $\eta = 0.20$	72
Running time of L^0 model (min)	2195
Running time of L^1 model (min)	1.45

TABLE 2
Comparisons of L^0 and L^1 in a single experiment