

Table 1: Comparison on model selection via regression upon applying different missing data methods.

	n	500	1000	2000	4000	8000
Amelia	Bias	-0.083	-0.085	-0.082	-0.081	-0.084
	RMSE	0.209	0.163	0.121	0.102	0.095
	Type I Error	0.076	0.086	0.112	0.172	0.342
	Coverage (%)	92.4	91.4	88.8	82.8	65.8
Complete case	Bias	-0.01	-0.008	0.012	0.003	0.003
	RMSE	0.231	0.158	0.116	0.071	0.055
	Type I Error	0.064	0.052	0.07	0.032	0.058
	Coverage (%)	93.6	94.8	93	96.8	94.2
MICE	Bias	-0.221	-0.221	-0.228	-0.239	-0.242
	RMSE	0.394	0.312	0.279	0.262	0.252
	Type I Error	0.088	0.15	0.23	0.442	0.726
	Coverage (%)	91.2	85	77	55.8	27.4
Missing tree	Bias	-0.015	-0.007	0.011	0.002	0.004
	RMSE	0.257	0.173	0.127	0.079	0.061
	Type I Error	0.058	0.048	0.06	0.032	0.05
	Coverage (%)	94	95.2	94	96.8	95