Simulation Tables

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Table 1: Model results for simulated data with n = 1000, k = 4, p = 2, h = 3, r = 2. 1000 iterations were run with a burn in of 250. Missingness mechanism was MAR and P(miss) = 0

		Class 1		Class 2		Class 3	
Model Component	Parameter	True	Est. (95% CrI)	True	Est. (95% CrI)	True	Est. (95% CrI)
MVSN	β_{11}	2.04	1.3 (1.06, 1.54)	5.64	0.82 (0.45, 1.19)	9.92	-3.44 (-3.76, -3.11)
Regression	β_{21}	0.42	3.28 (3.16, 3.4)	4.15	-0.27 (-0.43, -0.08)	8.28	-1.96 (-2.13, -1.8)
	β_{31}	2.35	1.82 (1.61, 2.07)	4.46	0.62 (0.23, 0.94)	9.41	-3.41 (-3.74, -3.08)
	β_{41}	0.81	2.55 (2.45, 2.67)	5.53	-0.6 (-0.76, -0.42)	8.76	-3.25 (-3.42, -3.09)
	β_{12}	1.01	1.54 (1.31, 1.77)	4.49	0.4 (0.04, 0.72)	8.7	-3.44 (-3.71, -3.18)
	β_{22}	3.24	2.08 (1.96, 2.18)	0.98	-0.34 (-0.51, -0.18)	9.3	-2.62 (-2.76, -2.5)
	β_{32}	-0.42	0.72 (0.51, 0.94)	4	0.26 (-0.1, 0.62)	9.58	-3.29 (-3.59, -2.97)
	β_{42}	0.33	3.35 (3.24, 3.46)	2.06	0.16 (-0.01, 0.32)	8.17	-2.65 (-2.8, -2.49)
	Ω_{11}	13.59	1.74 (1.53, 1.99)	77.23	1.25 (0.95, 1.68)	583.05	1.48 (1.21, 1.83)
	Ω_{12}	3.37	1.28 (1.08, 1.5)	74.54	0.61 (0.4, 0.95)	582.43	0.9 (0.69, 1.22)
	Ω_{13}	4.91	0.93 (0.75, 1.15)	67	0.3 (0.1, 0.56)	576.11	0.48 (0.3, 0.71)
	Ω_{14}	10.03	0.78 (0.61, 0.97)	72.56	0.1 (-0.1, 0.34)	582.86	0.46 (0.28, 0.69)
	Ω_{22}	12.71	1.71 (1.47, 1.95)	75.39	1.08 (0.81, 1.42)	588.89	1.42 (1.16, 1.74)
	Ω_{23}	8.29	1.18 (0.98, 1.38)	67.81	0.66 (0.44, 0.94)	574.34	0.77 (0.57, 1.01)
	Ω_{24}	6.67	0.94 (0.76, 1.16)	73.52	0.27 (0.06, 0.5)	579.46	0.63 (0.44, 0.88)
	Ω_{33}	10.55	1.67 (1.47, 1.9)	72.9	0.97 (0.75, 1.3)	577.7	1.12 (0.91, 1.37)
	Ω_{34}	9.65	1.17 (1, 1.38)	67.8	0.51 (0.33, 0.77)	578.12	0.71 (0.54, 0.95)
	Ω_{44}	11.8	1.65 (1.44, 1.89)	77.64	1.05 (0.81, 1.4)	590.32	1.28 (1.07, 1.56)
	α_1	-187.99	0 (0, 0)	0.77	0 (0, 0)	-3.23	0 (0, 0)
	α_2	20.33	0 (0, 0)	0.16	0 (0, 0)	-4.24	0 (0, 0)
	α_3	-250.26	0 (0, 0)	1.83	0 (0, 0)	-22.54	0 (0, 0)
	α_4	320.36	0 (0, 0)	0.45	0 (0, 0)	4.37	0 (0, 0)
Multinom.	δ_{11}	0.61	0.45 (0.22, 0.68)	0.61	0.45 (0.22, 0.68)	0.61	0.45 (0.22, 0.68)
	δ_{12}	0.24	0.4 (0.04, 0.73)	0.24	0.4 (0.04, 0.73)	0.24	0.4 (0.04, 0.73)
	δ_{21}	0.76	0.6 (0.38, 0.83)	0.76	0.6 (0.38, 0.83)	0.76	0.6 (0.38, 0.83)
	δ_{22}	0.31	0.42 (0.12, 0.77)	0.31	0.42 (0.12, 0.77)	0.31	0.42 (0.12, 0.77)
Clustering	π_l	0.19	0.56 (0.53, 0.6)	0.37	0.18 (0.15, 0.21)	0.44	0.26 (0.23, 0.29)