

Bayesian information criterion values for model comparison in Experiment 1

Condition	1. Mixture	2. Swap	3. Variable precision	4. Averaging	(1 - 2)	(1 - 3)	(2 - 3)	(1 - 4)	
Orientation: sequential	2875.20	2882.75	2882.75	2882.75	-7.54	-7.54	-0.00	-7.54	
	2718.82	2725.83	2716.54	2723.40	-7.01	2.28	9.28	-4.58	
	3082.40	3089.94	3089.94	3089.94	-7.54	-7.54	-0.00	-7.54	
	3060.82	3067.59	3067.23	3067.96	-6.77	-6.41	0.36	-7.14	
	2908.00	2915.54	2911.92	2915.54	-7.54	-3.92	3.62	-7.54	
	2929.14	2936.65	2935.59	2936.69	-7.50	-6.44	1.06	-7.54	
	2763.53	2771.07	2767.12	2771.07	-7.54	-3.60	3.94	-7.54	
	2798.96	2806.13	2806.50	2805.85	-7.18	-7.54	-0.36	-6.89	
	2889.79	2897.21	2895.74	2897.19	-7.42	-5.94	1.48	-7.39	
	2597.54	2605.08	2605.08	2605.08	-7.54	-7.54	-0.00	-7.54	
	2701.34	2708.88	2702.72	2708.87	-7.54	-1.38	6.16	-7.53	
	Orientation: simultaneous	2865.98	2873.52	2872.41	2872.02	-7.54	-6.43	1.11	-6.04
2784.07		2791.71	2789.26	2791.63	-7.64	-5.19	2.45	-7.56	
3365.82		3371.17	3372.99	3373.36	-5.35	-7.17	-1.82	-7.54	
3279.17		3286.71	3286.66	3286.55	-7.54	-7.48	0.06	-7.38	
3258.21		3263.93	3264.67	3265.03	-5.72	-6.46	-0.74	-6.82	
3131.01		3138.55	3136.70	3138.55	-7.54	-5.70	1.84	-7.54	
3148.84		3156.38	3155.66	3156.07	-7.54	-6.82	0.72	-7.23	
2868.51		2876.05	2865.25	2875.95	-7.54	3.26	10.80	-7.44	
3029.93		3037.47	3035.79	3037.43	-7.54	-5.86	1.68	-7.50	
2762.47		2770.01	2770.01	2769.55	-7.54	-7.54	0.00	-7.08	
2807.99		2815.53	2812.70	2815.53	-7.54	-4.71	2.83	-7.54	
Condition	1. Mixture	2. Swap	3. Variable precision	4. Averaging	(1 - 2)	(1 - 3)	(2 - 3)	(1 - 4)	
Direction: sequential	1242.77	1249.62	1249.62	1249.62	-6.85	-6.85	-0.00	-6.85	
	2432.50	2439.84	2438.05	2438.63	-7.35	-5.55	1.80	-6.13	
	2438.05	2445.35	2444.91	2445.59	-7.31	-6.86	0.44	-7.54	
	2231.74	2239.28	2227.81	2234.32	-7.54	3.93	11.47	-2.58	
	2540.42	2547.96	2544.78	2547.96	-7.54	-4.36	3.18	-7.54	
	2851.34	2856.88	2857.81	2858.88	-5.54	-6.47	-0.93	-7.54	
	2807.99	2811.66	2815.22	2815.53	-3.67	-7.23	-3.56	-7.54	
	2784.67	2792.21	2789.94	2792.21	-7.54	-5.26	2.28	-7.54	
	2665.58	2673.12	2672.99	2673.12	-7.54	-7.41	0.13	-7.54	
	2602.19	2609.73	2608.23	2609.58	-7.54	-6.04	1.50	-7.39	
	2516.72	2524.26	2510.29	2522.42	-7.54	6.43	13.97	-5.70	
	2840.25	2847.68	2847.04	2847.78	-7.43	-6.79	0.64	-7.53	
Direction: simultaneous	1221.82	1228.67	1228.67	1229.17	-6.85	-6.85	-0.01	-7.35	
	2886.34	2893.69	2893.79	2893.79	-7.35	-7.45	-0.10	-7.45	
	2737.13	2744.67	2741.82	2744.67	-7.54	-4.69	2.85	-7.54	
	2493.38	2500.92	2499.10	2500.92	-7.54	-5.72	1.82	-7.54	
	2524.65	2532.00	2531.06	2532.19	-7.35	-6.40	0.94	-7.54	
	3251.87	3259.41	3259.41	3259.40	-7.54	-7.54	-0.00	-7.53	
	3202.17	3206.21	3209.71	3209.71	-4.04	-7.54	-3.50	-7.54	
	2927.70	2933.76	2935.24	2935.24	-6.07	-7.54	-1.48	-7.54	
	2792.72	2800.26	2800.25	2800.26	-7.54	-7.53	0.02	-7.54	
	2779.74	2786.65	2784.23	2782.09	-6.90	-4.49	2.41	-2.35	
	2568.58	2576.12	2570.93	2576.12	-7.54	-2.35	5.19	-7.54	
	3248.38	3252.14	3251.03	3245.53	-3.77	-2.65	1.11	2.85	

Bayesian information criterion values for model comparison in Experiment 2

Condition	1. Mixture	2. Swap	3. Variable precision	4. Averaging	(1 - 2)	(1 - 3)	(2 - 3)	(1 - 4)
Orientation: rand sequential	1437.23	1444.08	1443.60	1444.08	-6.85	-6.36	0.48	-6.85
	1927.86	1934.81	1927.94	1934.80	-6.95	-0.08	6.87	-6.94
	1880.59	1887.54	1886.06	1887.58	-6.95	-5.48	1.48	-7.00
	1966.92	1973.95	1973.71	1973.95	-7.03	-6.79	0.24	-7.03
	1908.97	1915.73	1912.62	1915.95	-6.77	-3.66	3.11	-6.99
	1871.58	1878.61	1878.17	1876.24	-7.03	-6.59	0.44	-4.66
	1809.71	1816.36	1816.74	1816.74	-6.65	-7.03	-0.38	-7.03
	1823.63	1830.53	1829.00	1829.76	-6.90	-5.37	1.53	-6.14
	1964.24	1971.27	1971.27	1971.27	-7.03	-7.03	-0.00	-7.03
	1916.21	1922.57	1921.74	1921.61	-6.36	-5.53	0.83	-5.40
	1936.91	1943.94	1940.57	1943.37	-7.03	-3.66	3.37	-6.46
	1941.82	1948.49	1948.72	1948.81	-6.68	-6.91	-0.23	-6.99
Orientation: fixed sequential	1456.31	1463.16	1460.65	1463.16	-6.85	-4.34	2.51	-6.85
	1915.17	1921.78	1918.60	1922.16	-6.61	-3.43	3.18	-6.99
	1882.80	1889.62	1889.83	1889.32	-6.82	-7.03	-0.21	-6.53
	1921.12	1928.15	1924.21	1925.98	-7.03	-3.09	3.94	-4.86
	1928.36	1934.95	1935.40	1935.39	-6.59	-7.03	-0.44	-7.03
	1809.08	1815.62	1815.19	1814.28	-6.54	-6.10	0.44	-5.20
	1855.49	1862.44	1860.82	1862.07	-6.95	-5.33	1.62	-6.59
	1849.22	1855.80	1854.50	1854.93	-6.57	-5.28	1.29	-5.70
	1949.69	1956.72	1956.72	1956.72	-7.03	-7.03	-0.00	-7.03
	1879.34	1886.37	1884.56	1886.09	-7.03	-5.22	1.81	-6.75
	1854.12	1861.15	1856.23	1858.11	-7.03	-2.11	4.92	-3.99
	1949.09	1956.12	1956.12	1956.12	-7.03	-7.03	-0.00	-7.03
Orientation: simultaneous	1466.17	1472.17	1471.41	1473.02	-6.00	-5.25	0.75	-6.85
	2016.72	2023.75	2023.50	2023.75	-7.03	-6.79	0.25	-7.03
	1890.13	1897.05	1896.97	1895.49	-6.92	-6.84	0.08	-5.37
	2015.35	2022.38	2022.38	2022.38	-7.03	-7.03	0.00	-7.03
	2034.57	2041.51	2041.43	2041.60	-6.95	-6.86	0.08	-7.03
	1868.06	1874.75	1875.10	1875.09	-6.69	-7.03	-0.34	-7.03
	1772.86	1779.89	1779.31	1779.89	-7.03	-6.44	0.59	-7.03
	1884.64	1891.67	1891.67	1891.67	-7.03	-7.03	-0.00	-7.03
	1941.49	1947.86	1948.52	1948.52	-6.37	-7.03	-0.66	-7.03
	1998.45	2005.31	2005.48	2005.48	-6.86	-7.03	-0.18	-7.03
	1952.30	1959.33	1959.33	1959.33	-7.03	-7.03	-0.00	-7.03
	2001.22	2005.26	2006.04	2003.82	-4.04	-4.82	-0.78	-2.60
Condition	1. Mixture	2. Swap	3. Variable precision	4. Averaging	(1 - 2)	(1 - 3)	(2 - 3)	(1 - 4)
Direction: rand sequential	1624.45	1631.48	1631.48	1631.48	-7.03	-7.03	-0.00	-7.03
	1966.20	1973.23	1969.23	1972.34	-7.03	-3.03	4.00	-6.15
	1597.71	1604.69	1600.54	1603.48	-6.97	-2.83	4.15	-5.77
	1979.30	1986.25	1986.33	1986.33	-6.95	-7.03	-0.08	-7.03
	1750.26	1757.29	1757.29	1757.29	-7.03	-7.03	-0.00	-7.03
	1735.83	1734.31	1742.86	1742.86	1.52	-7.03	-8.55	-7.03
	1945.07	1950.01	1952.10	1952.10	-4.94	-7.03	-2.09	-7.03
	1845.99	1853.02	1841.63	1852.05	-7.03	4.36	11.39	-6.06
	1778.76	1785.72	1785.79	1785.31	-6.96	-7.03	-0.07	-6.55
	1746.38	1753.41	1752.70	1753.37	-7.03	-6.32	0.71	-6.99
	1758.34	1765.37	1763.77	1765.37	-7.03	-5.44	1.59	-7.03
	1723.78	1729.65	1724.46	1730.24	-5.87	-0.68	5.19	-6.47
Direction: fixed sequential	1618.49	1624.64	1624.56	1625.43	-6.15	-6.06	0.08	-6.93
	1898.70	1904.08	1905.22	1905.16	-5.38	-6.52	-1.14	-6.46
	1576.82	1583.88	1583.85	1584.00	-7.06	-7.03	0.02	-7.17
	1910.50	1917.53	1917.18	1917.53	-7.03	-6.68	0.35	-7.03
	1804.71	1811.47	1811.63	1811.27	-6.76	-6.92	-0.16	-6.55
	1769.34	1766.12	1773.32	1776.37	3.21	-3.98	-7.19	-7.03

Condition	1. Mixture	2. Swap	3. Variable precision	4. Averaging	(1 - 2)	(1 - 3)	(2 - 3)	(1 - 4)
	1877.50	1882.26	1884.52	1882.79	-4.76	-7.02	-2.26	-5.29
	1801.60	1806.62	1808.63	1808.63	-5.02	-7.03	-2.01	-7.03
	1748.08	1754.04	1755.11	1755.11	-5.96	-7.03	-1.07	-7.03
	1775.88	1782.92	1779.41	1781.06	-7.03	-3.52	3.51	-5.18
	1874.45	1881.48	1879.81	1881.48	-7.03	-5.36	1.67	-7.03
	1653.19	1660.22	1660.22	1660.22	-7.03	-7.03	-0.00	-7.03
Direction: simultaneous	1771.94	1778.93	1778.97	1778.97	-6.99	-7.03	-0.05	-7.03
	1979.15	1985.87	1984.73	1985.48	-6.72	-5.58	1.14	-6.33
	1727.80	1734.83	1734.83	1734.83	-7.03	-7.03	-0.00	-7.03
	2015.58	2019.04	2022.61	2022.61	-3.47	-7.03	-3.57	-7.03
	1990.78	1997.81	1997.81	1997.81	-7.03	-7.03	-0.00	-7.03
	1949.25	1954.78	1955.92	1956.28	-5.53	-6.66	-1.14	-7.03
	2072.00	2079.03	2079.03	2079.03	-7.03	-7.03	-0.00	-7.03
	1945.89	1952.92	1952.87	1952.92	-7.03	-6.98	0.05	-7.03
	1943.65	1946.28	1950.68	1950.68	-2.63	-7.03	-4.40	-7.03
	1843.71	1849.41	1850.74	1850.74	-5.69	-7.03	-1.34	-7.03
	2037.56	2044.60	2044.60	2043.91	-7.03	-7.03	-0.00	-6.34
	1751.12	1757.79	1757.92	1758.15	-6.67	-6.80	-0.13	-7.03