

ERRATA

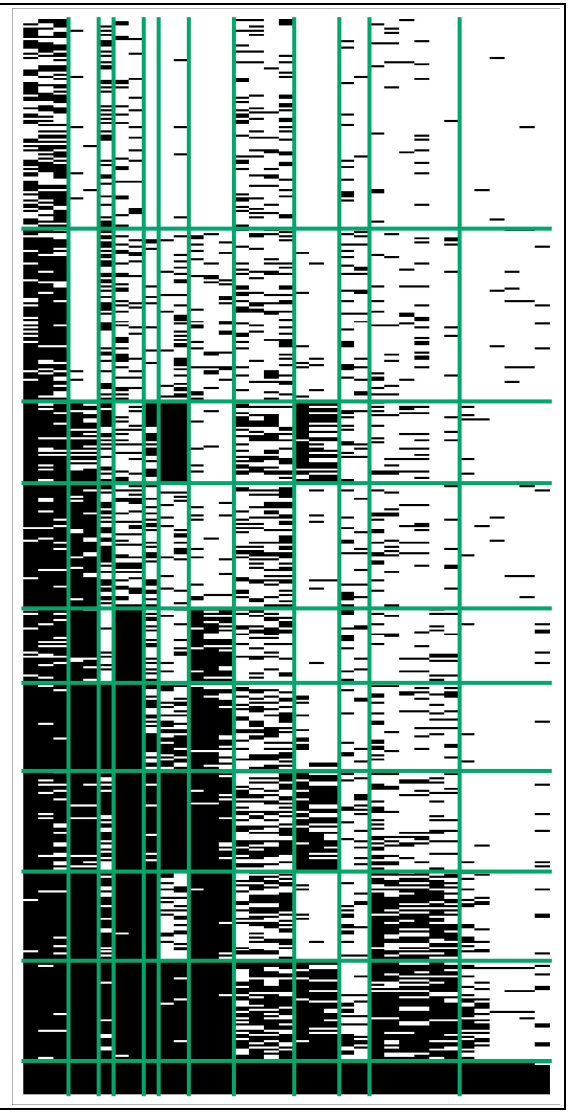
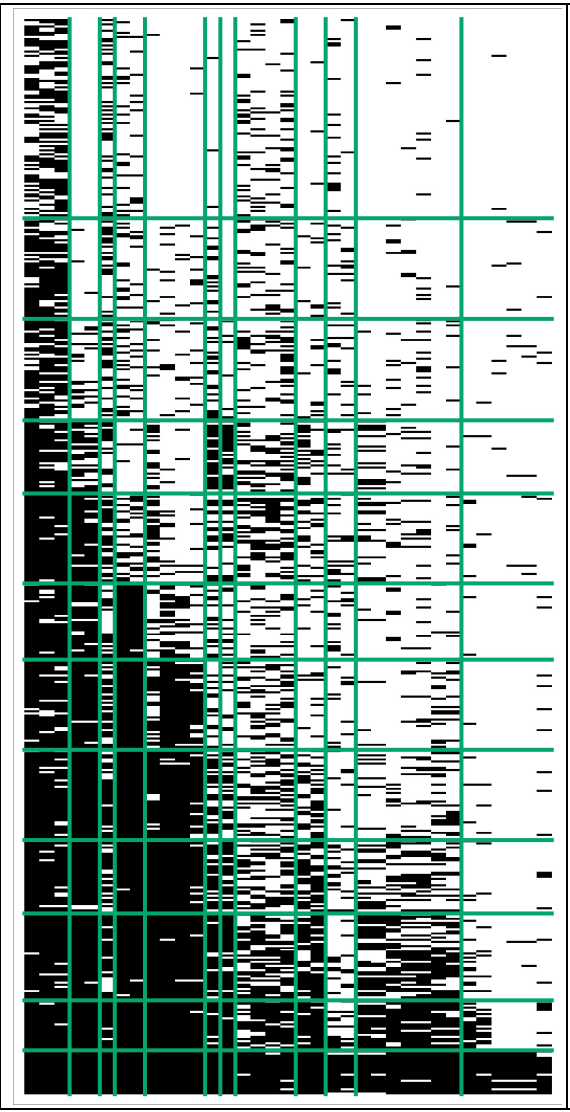
The following table lists the errors found in the book.

The author would like to express his deep appreciation to Dr. Koji Kosugi (Senshu University) for pointing out these errors.

Location	Error	Correction
P20, Eq.(2.3)	$t_s^{(w)} = \mathbf{w}'(\mathbf{z}_j \odot \mathbf{u}_s) = \dots$	$t_s^{(w)} = \mathbf{w}'(\mathbf{z}_s \odot \mathbf{u}_s) = \dots$
P46, L4	$\tau_k = 0.088$	$\tau_k = -0.088$
P49, Eq.(2.17)	0.088 (five places)	-0.088
P49, second equation	$ll(0.5; -0.518, 0.088) = -106.2$	$ll(0.5; -0.518, -0.088) = -105.3$
P49, third equation	$e^{-106.2} = 7.55 \times 10^{-47}$	$e^{-105.3} = 1.84 \times 10^{-46}$
P49, fourth equation	$ll(0.0; -0.518, 0.088) = -112.9$	$ll(0.5; -0.518, -0.088) = -112.1$
P49, fifth equation	$ll(0.5; -0.518, 0.088) > ll(0.0; -0.518, 0.088)$	$ll(0.5; -0.518, -0.088) > ll(0.0; -0.518, -0.088)$
P49, L18	$ll(\rho; -0.518, 0.088)$	$ll(\rho; -0.518, -0.088)$
P133, box	$-\frac{d^2 \ln \text{pr}(c \beta_{c_1}, \beta_{c_2})}{dc^2} = \frac{\beta_{c_1} - 1}{c^2} + \frac{\beta_{c_2} - 1}{1 - c^2}$ $-\frac{d^2 \ln \text{pr}(d \beta_{d_1}, \beta_{d_2})}{dd^2} = \frac{\beta_{d_1} - 1}{d^2} + \frac{\beta_{d_2} - 1}{1 - d^2}$	$-\frac{d^2 \ln \text{pr}(c \beta_{c_1}, \beta_{c_2})}{dc^2} = \frac{\beta_{c_1} - 1}{c^2} + \frac{\beta_{c_2} - 1}{(1 - c)^2}$ $-\frac{d^2 \ln \text{pr}(d \beta_{d_1}, \beta_{d_2})}{dd^2} = \frac{\beta_{d_1} - 1}{d^2} + \frac{\beta_{d_2} - 1}{(1 - d)^2}$
P135, box	$-E \left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial d \partial a} \right] = - \sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)(P(\theta_q; \boldsymbol{\lambda}) - c)^2}{(d - c)P(\theta_q; \boldsymbol{\lambda})Q(\theta_q; \boldsymbol{\lambda})}$	$-E \left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial d \partial a} \right] = \sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)(P(\theta_q; \boldsymbol{\lambda}) - c)^2 (d - P(\theta_q; \boldsymbol{\lambda}))}{(d - c)^2 P(\theta_q; \boldsymbol{\lambda})Q(\theta_q; \boldsymbol{\lambda})}$
P136, upper box	$-E \left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial a^2} \right] = \sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)^2 (P(\theta_q; \boldsymbol{\lambda}) - c)^2 Q(\theta_q; \boldsymbol{\lambda})}{(1 - c)P(\theta_q; \boldsymbol{\lambda})}$	$-E \left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial a^2} \right] = \sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)^2 (P(\theta_q; \boldsymbol{\lambda}) - c)^2 Q(\theta_q; \boldsymbol{\lambda})}{(1 - c)^2 P(\theta_q; \boldsymbol{\lambda})}$

P140, box, 4th item	$(-\infty, 1]$	$(-\infty, 0]$												
P150, box, CAIC	$CAIC_j = \chi_{Aj}^2 - df_{Aj} \ln(S + 1)$	$CAIC_j = \chi_{Aj}^2 - df_{Aj} (\ln S + 1)$												
P183, box, CAIC	$CAIC_j = \chi_{Aj}^2 - df_{Aj} \ln(S + 1)$	$CAIC_j = \chi_{Aj}^2 - df_{Aj} (\ln S + 1)$												
P205, third equation	$\kappa_t = \frac{(T-t)\kappa_1 + (t-1)\kappa_T}{R(T-1)}$	$\kappa_t = \frac{(T-t)\kappa_1 + (t-1)\kappa_T}{T-1}$												
P250, box, CAIC	$CAIC = \chi_A^2 - df_A \ln(S + 1)$	$CAIC = \chi_A^2 - df_A (\ln S + 1)$												
P267, second equation	$\Pi_B^{(0)} = \begin{bmatrix} 0.624 & 0.864 & 0.872 & 0.898 & 0.952 & 1.000 \\ 0.063 & 0.333 & 0.426 & 0.919 & 0.990 & 1.000 \\ 0.201 & 0.543 & 0.228 & 0.475 & 0.706 & 1.000 \\ 0.050 & 0.245 & 0.078 & 0.233 & 0.648 & 0.983 \\ 0.023 & 0.054 & 0.028 & 0.043 & 0.160 & 0.983 \end{bmatrix}$	$\Pi_B^{(0)} = \begin{bmatrix} 0.455 & 0.545 & 0.636 & 0.727 & 0.818 & 0.909 \\ 0.364 & 0.455 & 0.545 & 0.636 & 0.727 & 0.818 \\ 0.273 & 0.364 & 0.455 & 0.545 & 0.636 & 0.727 \\ 0.182 & 0.273 & 0.364 & 0.455 & 0.545 & 0.636 \\ 0.091 & 0.182 & 0.273 & 0.364 & 0.455 & 0.545 \end{bmatrix}$												
P270, last equation	$pr(\Pi_B; \beta_0, \beta_1) = \prod_{f=1}^F \prod_{c=1}^c \frac{\pi_{fc}^{\beta_1-1} (1 - \pi_{fc})^{\beta_1-1}}{B(\beta_0, \beta_1)}$	$pr(\Pi_B; \beta_0, \beta_1) = \prod_{f=1}^F \prod_{c=1}^c \frac{\pi_{fc}^{\beta_1-1} (1 - \pi_{fc})^{\beta_0-1}}{B(\beta_0, \beta_1)}$												
P 293, Table 7.3	(the bottom row) <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>LFD*2</td> <td>3</td> <td>7</td> <td>4</td> <td>8</td> <td>12</td> </tr> </table>	LFD*2	3	7	4	8	12	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>LFD*2</td> <td>3</td> <td>7</td> <td>4</td> <td>9</td> <td>12</td> </tr> </table>	LFD*2	3	7	4	9	12
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P 294, Table 7.4	(the bottom row) <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>LFD</td> <td>3</td> <td>7</td> <td>4</td> <td>7</td> <td>12</td> </tr> </table>	LFD	3	7	4	7	12	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>LFD</td> <td>3</td> <td>7</td> <td>4</td> <td>9</td> <td>12</td> </tr> </table>	LFD	3	7	4	9	12
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P326, box, CAIC	$CAIC = \chi_A^2 - df_A \ln(S + 1)$	$CAIC = \chi_A^2 - df_A (\ln S + 1)$												
P327, second paragraph	$CAIC \ln(S + 1)$	$CAIC (\ln S + 1)$												
P328 Table 7.9	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>CAIC</td> <td>-4520.28</td> </tr> </table>	CAIC	-4520.28	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>CAIC</td> <td>-5684.36</td> </tr> </table>	CAIC	-5684.36								
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P328, second equation	$CAIC = \chi_A^2 - \ln(S + 1) \times edf_A$ $= 2763.50 - \ln 516 \times 1166.16 = -4520.48$	$CAIC = \chi_A^2 - (\ln S + 1) \times edf_A$ $= 2763.50 - (\ln 515 + 1) \times 1166.16 = -5684.36$												

P 330, Table 7.11	(the first row and second column)																																																																																																	
	<table border="1"> <thead> <tr> <th>$F \setminus R$</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>17</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>-5009.47</td> <td>-5031.88</td> <td>-5056.72</td> <td>-5071.52</td> <td>-5091.82</td> <td>-5109.94</td> <td>-5123.12</td> </tr> <tr> <td>6</td> <td>-5096.78</td> <td>-5074.30</td> <td>-5212.90</td> <td>-5212.45</td> <td>-5039.19</td> <td>-5045.53</td> <td>-5255.66</td> </tr> <tr> <td>7</td> <td>-5189.44</td> <td>-5208.74</td> <td>-5152.74</td> <td>-5163.36</td> <td>-5159.46</td> <td>-5169.96</td> <td>-5242.73</td> </tr> <tr> <td>8</td> <td>-5329.56</td> <td>-5354.64</td> <td>-5372.70</td> <td>-5391.83</td> <td>-5412.61</td> <td>-5433.39</td> <td>-5446.86</td> </tr> <tr> <td>9</td> <td>-5330.80</td> <td>-5354.18</td> <td>-5299.48</td> <td>-5323.41</td> <td>-5389.28</td> <td>-5410.32</td> <td>-5425.94</td> </tr> <tr> <td>10</td> <td>-5317.76</td> <td>-5336.72</td> <td>-5364.86</td> <td>-5438.38</td> <td>-5453.99</td> <td>-5462.63</td> <td>-5478.09</td> </tr> <tr> <td>11</td> <td>-5398.36</td> <td>-5396.98</td> <td>-5266.07</td> <td>-5359.73</td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>-5412.16</td> <td>-5504.37</td> <td>-5539.68</td> <td>-5557.33</td> <td>-5528.14</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>-5398.25</td> <td>-5489.55</td> <td>-5523.16</td> <td>-5522.75</td> <td>-5530.59</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>-5353.03</td> <td>-5440.79</td> <td>-5424.61</td> <td>-5520.25</td> <td>-5532.00</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>-5459.98</td> <td>-5441.67</td> <td>-5401.13</td> <td>-5417.41</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	$F \setminus R$	11	12	13	14	15	16	17	5	-5009.47	-5031.88	-5056.72	-5071.52	-5091.82	-5109.94	-5123.12	6	-5096.78	-5074.30	-5212.90	-5212.45	-5039.19	-5045.53	-5255.66	7	-5189.44	-5208.74	-5152.74	-5163.36	-5159.46	-5169.96	-5242.73	8	-5329.56	-5354.64	-5372.70	-5391.83	-5412.61	-5433.39	-5446.86	9	-5330.80	-5354.18	-5299.48	-5323.41	-5389.28	-5410.32	-5425.94	10	-5317.76	-5336.72	-5364.86	-5438.38	-5453.99	-5462.63	-5478.09	11	-5398.36	-5396.98	-5266.07	-5359.73				12	-5412.16	-5504.37	-5539.68	-5557.33	-5528.14			13	-5398.25	-5489.55	-5523.16	-5522.75	-5530.59			14	-5353.03	-5440.79	-5424.61	-5520.25	-5532.00			15	-5459.98	-5441.67	-5401.13	-5417.41				
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P330, second par, L2	...an R ranging from 12 to 18	...an R ranging from 11 to 17																																																																																																
P331, first par, L3	L3: ... when $(F, R) = (12, 14)$ and thus $BIC = -5557.33$. L4: ... with $(F, R) = (12, 14)$, where...	L3: ... when $(F, R) = (12, 13)$ and thus $BIC = -5504.37$. L4: ... with $(F, R) = (12, 13)$, where...																																																																																																
P331, Fig. 7.24	Rankclustering $(F, R) = (12, 11)$	Biclustering $(C, R) = (12, 10)$																																																																																																



P335, Table 7.12	(upper part)						
	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	LF
Item 01	1						1
Item 02				1			4
Item 03				1			4
Item 04					1		5
Item 05					1		5
Item 06					1		5
Item 07				1			4
Item 08				1			4
Item 09				1			4
P563, Table 11.7	χ^2 and df		Standardized Index		Information Criterion		
ll_B	-5891.31	NFI	1.000	AIC	-2218.74		
ll_N	-9862.11	RFI	1.000	CAIC	-6486.08		
ll_A	-5786.94	IFI	1.000	BIC	-6484.13		
χ_N^2	7941.60	TLI	1.000				
χ_A^2	-208.74	CFI	1.000				
df_N	1155	RMSEA	0.000				
df_A	1005						
P566, Table 11.9	χ^2 and df		Standardized Index		Information Criterion		
ll_B	0.00	NFI	0.413	AIC	-22216.1		
ll_N	-9862.11	RFI	0.408	CAIC	-93954.1		
ll_A	-5786.94	IFI	1.000	BIC	-93921.3		
χ_N^2	19724.20	TLI	1.000				
χ_A^2	11573.90	CFI	1.000				
df_N	17045	RMSEA	0.000				
df_A	16895						

P566, first equation	$\chi_A^2 = 2 \times \{0 - (-5776.14)\} = 11,552.28$	$\chi_A^2 = 2 \times \{0 - (-5786.94)\} = 11,573.90$
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