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
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	$-\frac{\mathrm{d}^2 \ln \mathrm{pr}(c\|\beta_{c_1}, \beta_{c_2})}{\mathrm{d}c^2} = \frac{\beta_{c_1} - 1}{c^2} + \frac{\beta_{c_2} - 1}{1 - c^2}$ $-\frac{\mathrm{d}^2 \ln \mathrm{pr}(d\|\beta_{d_1}, \beta_{d_2})}{\mathrm{d}d^2} = \frac{\beta_{d_1} - 1}{d^2} + \frac{\beta_{d_2} - 1}{1 - d^2}$	$-\frac{\mathrm{d}^2 \ln \mathrm{pr}(c\|\beta_{c_1}, \beta_{c_2})}{\mathrm{d}c^2} = \frac{\beta_{c_1} - 1}{c^2} + \frac{\beta_{c_2} - 1}{(1 - c)^2}$ $-\frac{\mathrm{d}^2 \ln \mathrm{pr}(d\|\beta_{d_1}, \beta_{d_2})}{\mathrm{d}d^2} = \frac{\beta_{d_1} - 1}{d^2} + \frac{\beta_{d_2} - 1}{(1 - d)^2}$
P135, box	$-E\left[\frac{\partial^2 ell(\boldsymbol{u}_j\|\boldsymbol{\lambda})}{\partial d\, \partial a}\right] = -\sum_{q=1}^{Q} Z_{jq} \frac{(\theta_q - b)(P(\theta_q;\boldsymbol{\lambda}) - c)^2}{(d - c)P(\theta_q;\boldsymbol{\lambda})Q(\theta_q;\boldsymbol{\lambda})}$	$-E\left[\frac{\partial^2 ell(\boldsymbol{u}_j\|\boldsymbol{\lambda})}{\partial d\, \partial a}\right] = \sum_{q=1}^{Q} Z_{jq} \frac{(\theta_q - b)(P(\theta_q;\boldsymbol{\lambda}) - c)^2 \left(d - P(\theta_q;\boldsymbol{\lambda})\right)}{(d - c)^2 P(\theta_q;\boldsymbol{\lambda})Q(\theta_q;\boldsymbol{\lambda})}$
P136, upper box	$-E\left[\frac{\partial^2 ell(\boldsymbol{u}_j\|\boldsymbol{\lambda})}{\partial a^2}\right] = \sum_{q=1}^{Q} Z_{jq} \frac{(\theta_q - b)^2 (P(\theta_q;\boldsymbol{\lambda}) - c)^2 Q(\theta_q;\boldsymbol{\lambda})}{(1 - c)P(\theta_q;\boldsymbol{\lambda})}$	$-E\left[\frac{\partial^2 ell(\boldsymbol{u}_j\|\boldsymbol{\lambda})}{\partial a^2}\right] = \sum_{q=1}^{Q} Z_{jq} \frac{(\theta_q - b)^2 (P(\theta_q;\boldsymbol{\lambda}) - c)^2 Q(\theta_q;\boldsymbol{\lambda})}{(1 - c)^2 P(\theta_q;\boldsymbol{\lambda})}$

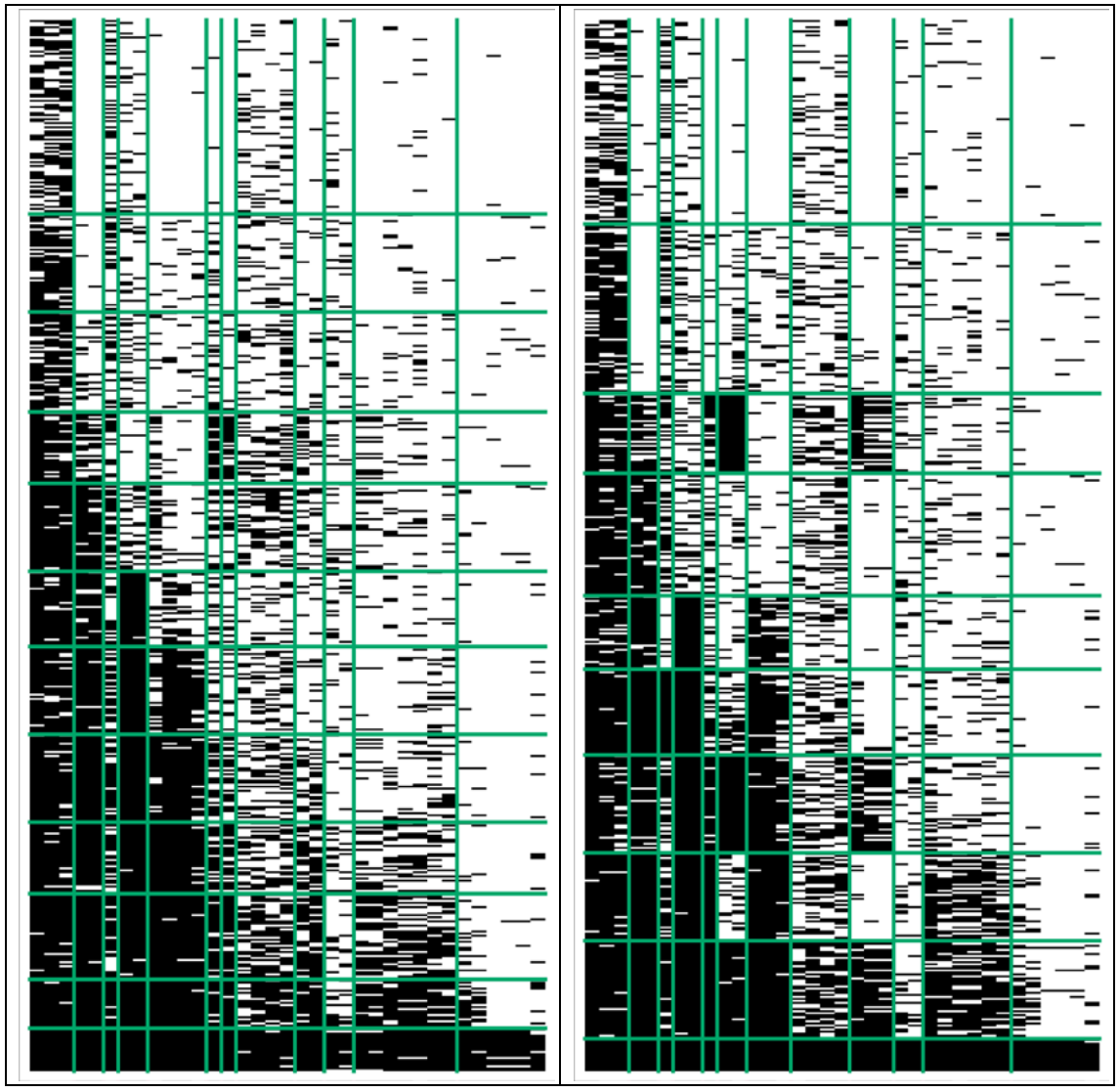
Location	Error	Correction
P205, third equation	$\kappa_t = \frac{(T-t)\kappa_1 + (t-1)\kappa_T}{R(T-1)}$	$\kappa_t = \frac{(T-t)\kappa_1 + (t-1)\kappa_T}{T-1}$
P267, second equation	$\Pi_B^{(0)} = \begin{bmatrix} 0.624 & 0.864 & 0.872 & 0.898 & 0.952 & 1.000 \\ 0.063 & 0.333 & 0.426 & 0.919 & 0.990 & 1.000 \\ 0.201 & 0.543 & 0.228 & 0.475 & 0.706 & 1.000 \\ 0.050 & 0.245 & 0.078 & 0.233 & 0.648 & 0.983 \\ 0.023 & 0.054 & 0.028 & 0.043 & 0.160 & 0.983 \end{bmatrix}$	$\Pi_B^{(0)} = \begin{bmatrix} 0.455 & 0.545 & 0.636 & 0.727 & 0.818 & 0.909 \\ 0.364 & 0.455 & 0.545 & 0.636 & 0.727 & 0.818 \\ 0.273 & 0.364 & 0.455 & 0.545 & 0.636 & 0.727 \\ 0.182 & 0.273 & 0.364 & 0.455 & 0.545 & 0.636 \\ 0.091 & 0.182 & 0.273 & 0.364 & 0.455 & 0.545 \end{bmatrix}$
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) LFD*2 | 3 | 7 | 4 | 8 | 12	LFD*2 | 3 | 7 | 4 | 9 | 12
P 294, Table 7.4	(the bottom row) LFD | 3 | 7 | 4 | 7 | 12	LFD | 3 | 7 | 4 | 9 | 12

P 330, Table 7.11

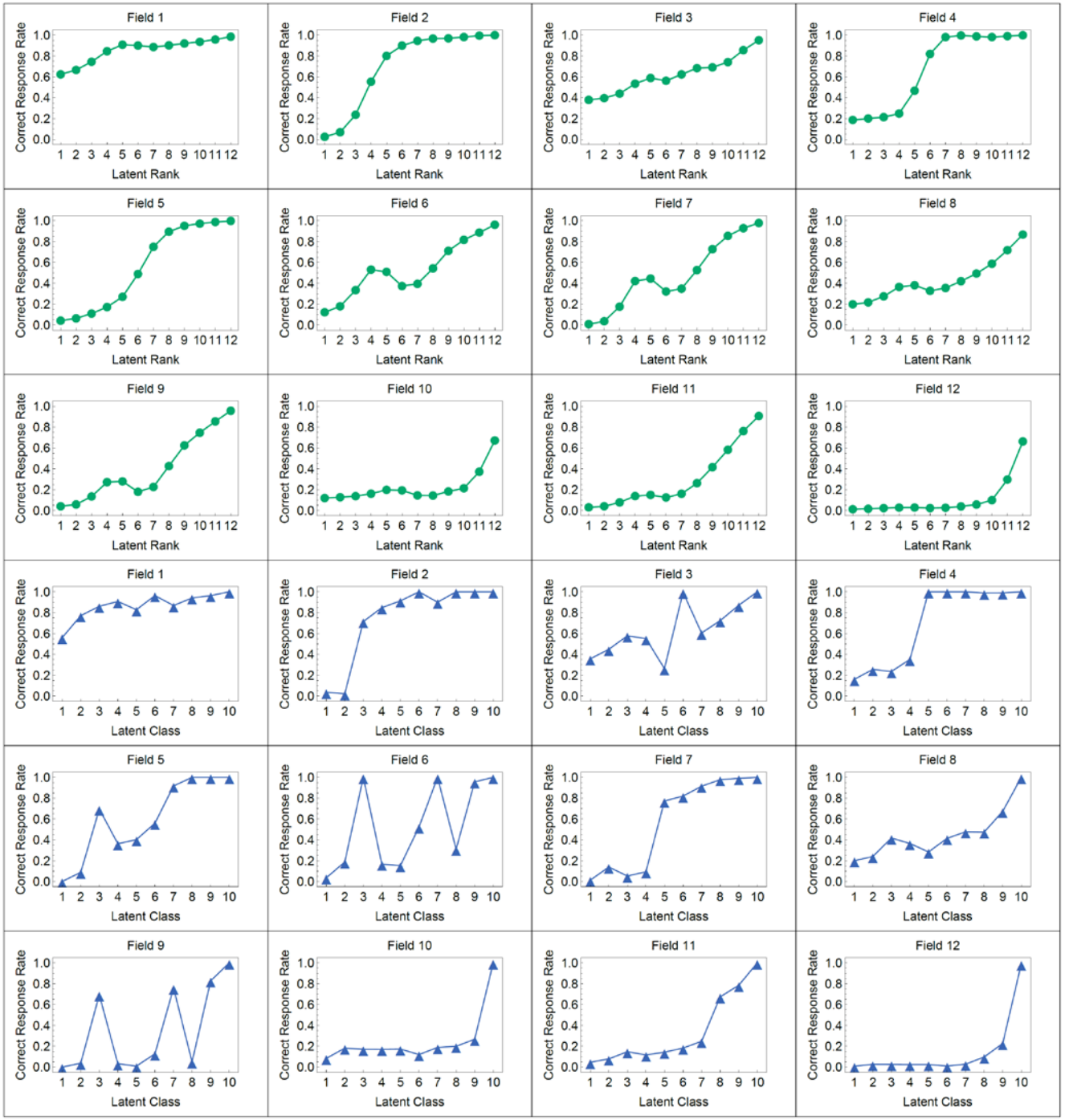
(the first row and second column)

$F \setminus R$	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			

Location	Error	Correction
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	Ranklustering $(F,R)=(12,11)$	Biclustering $(C,R)=(12,10)$



P333, Fig. 7.25


Field 1
Field 2
Field 3
Field 4
Field 5
Field 6
Field 7
Field 8
Field 9
Field 10
Field 11
Field 12
Field 1
Field 2
Field 3
Field 4
Field 5
Field 6
Field 7
Field 8
Field 9
Field 10
Field 11
Field 12
Correct Response Rate
Latent Rank
Latent Class

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^2_N	7941.60	TLI	1.000		
χ^2_A	−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^2_N	19724.20	TLI	1.000		
χ^2_A	11573.90	CFI	1.000		
df_N	17045	RMSEA	0.000		
df_A	16895				

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

Last Updated: 2024/09/17