
Sergey Kirshner, Purdue University
skirshne@purdue.edu
November 10, 2009

- Page 41, exercise 2.17, should read $K = |Val(X)|$. (Found by Joel Pfeiffer.)
- Page 41, exercise 2.19(a), should read $I_P (X; Y \mid Z) = H_P (X \mid Z) - H_P (X \mid Y, Z)$. (Found by Joel Pfeiffer.)
- Page 53, Figure 3.4, table for Grade is incorrect, should read $i^1, d^0$ in the third row and $i^4, d^1$ in the fourth row. Table for Letter should read $g^2$ in the third row.
- Page 53, Line -7, should read read 50 percent.
- Page 61, Equation 3.15, should read "=" instead of "==".
- Page 96, Exercise 3.2c., is confusing, probably should read something along the lines of "...that is, can be written as $\sum_{n=1}^N \alpha_i x_i + \alpha_0$ (where $Val(X_i) = \{0, 1\}$ for $i = 1, \ldots, n$)."
- Page 120, Example 4.5, Line 1 should read "... over $X = \{X_1, \ldots, X_n\}$; let $X' = \{X'_1, \ldots, X'_n\}$. ..."
- Page 127 Box 4.D line 3: to each $X_i$ a 'label' in the space $V$. (Found by Gaurav Srivastava.)
- Page 128 Figure 4.10: Some entries are sign-wrong. $\epsilon_1 (a^0, b^1) = -1.61, \epsilon_1 (a^1, b^1) = -2.3, \epsilon_2 (a^1, b^1) = -4.61$. (Found by Gaurav Srivastava.)
- Page 171 Example 5.14: $(J \perp c \mid a^0, s^1) \rightarrow (J \perp c \mid a^1, s^1)$. (Found by Gaurav Srivastava.)
- Page 248 Equation above (7.2), second line, instead of $-2x^T J u$ should read $-2x^T J \mu$. (Found by Rob Gevers.)
- Page 259 Exercise 7.7 contains three typos (found by several students)

1. Conditional covariance is usually defined without integrating out the covariate, $Cov_p [X_i; X_j \mid Z] = E_p ([X_i - E [X_i \mid Z]] [X_j - E [X_j \mid Z]])$. If covariate is to be integrated out, the expression for the first equation should then be

$$ Cov_p [X_i; X_j \mid Z] = E_p (Z) E_p (X_i, X_j | Z) [(X_i - E [X_i \mid Z]) (X_j - E [X_j \mid Z])] $$

2. Second equation should read $\rho_{i,j} = \frac{Cov_p [X_i, X_j \mid X - \{X_i, X_j\}]}{\sqrt{Var_p [X_i | X - \{X_i, X_j\}] Var_p [X_j | X - \{X_i, X_j\}]}$.

3. Third equation should read $\rho_{i,j} = -\frac{J_{i,j}}{\sqrt{J_{i,i} J_{j,j}}}$.

- Page 312 Example 9.3 provides neither the correct ordering nor follows it. (Found by Bunyamin Sisman.)
• page 346 Example 10.1, line 3, “factor $\tau_3 (G, S)$” should read “message $\tau_3 (G, S)$.” (Found by Ryan Rossi.)

• page 375 Clique tree construction, item 3 first word should be “Find”.

• page 785 Section 18.1.2 Paragraph starting with “The second approach”, first sentence should read “The second approach is score-based structure learning.” (Found by Student.)