Errata for Aitken and Taroni (2004)

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The following are misprints in


that have come to the attention of the authors. Please inform them of any other misprints and they will endeavour to keep this list up-to-date.

p. 65: There is an additional closing parenthesis on line 6. The first part of that line should read

‘... that $x^T = (x_1, x_2, \ldots, x_p)$. For ...’

p. 67: The last formula should read

$$\frac{1}{\sqrt{2\pi\sigma_1^2}} \exp \left[ -\frac{1}{2} \left( \frac{(x_1 - \theta_1)^2}{\sigma_1^2} \right) \right] \times \frac{1}{\sqrt{2\pi\sigma_2^2}} \exp \left[ -\frac{1}{2} \left( \frac{(x_2 - \theta_2)^2}{\sigma_2^2} \right) \right].$$

p. 324: The first expression should read

$$f(x \mid \mu, \sigma^2, \tau^2) = \int f(x \mid \theta, \sigma^2) f(\theta \mid \mu, \tau^2) d\theta$$

$$= \int \frac{1}{2\pi\sigma\tau} \exp \left\{ -\frac{1}{2\sigma^2} (x - \theta)^2 \right\} \exp \left\{ -\frac{1}{2\tau^2} (\theta - \mu)^2 \right\} d\theta$$

$$= \frac{1}{\sqrt{2\pi(\sigma^2 + \tau^2)}} \exp \left\{ -\frac{1}{2(\sigma^2 + \tau^2)} (x - \mu)^2 \right\},$$
There is an extra closing parenthesis on the equation and it should read

\[ V = \frac{1}{\sigma \sqrt{2\pi}} \exp \left\{ -\left( \frac{y - \bar{x}}{2\sigma^2} \right)^2 \right\} \]
\[ \cdot \frac{1}{\tau \sqrt{2\pi}} \exp \left\{ -\left( \frac{y - \mu}{2\tau^2} \right)^2 \right\} \]
\[ = \frac{\tau}{\sigma} \exp \left\{ \frac{(y - \mu)^2}{2\tau^2} - \frac{(y - \bar{x})^2}{2\sigma^2} \right\}. \]

The formula for the between-group variance \( \tau^2 \) should read

\[ s^2 = \frac{k}{k-1} \left( \bar{z}_i - \bar{z} \right)^2 - \hat{\sigma}^2/l, \]

an adjustment of \( \hat{\sigma}^2/l \) from (10.10)\(^{\prime}\).

Second line, the distribution of \( W \), given \( \theta \) is \( N(\theta, \tau^2 + \sigma^2/(m+n)) \).

Equation (10.24) should read

\[ \nu = \left( \frac{s^2_x + s^2_y}{n_x \sigma_x^2 (n_x - 1) + n_y \sigma_y^2 (n_y - 1)} \right)^2. \]

11 lines from the bottom should read ‘situation where the larger the number of people who were profiled and found’

9 lines from the top should read ‘the sum of profile probabilities of all these potential donors. The likelihood ’