

# CORRECTION NOTES

## CORRECTION TO "A CONTINUOUS KIEFER-WOLFOWITZ PROCEDURE FOR RANDOM PROCESSES"

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Dr. Václav Fabian has pointed out an error in this paper (*Ann. Math. Statist.* **35** 590–599). Following Equation (17) it is stated that  $\partial M/\partial x_i$  is positive in the interval  $b_i - \delta \leq x_i \leq b_i$ . This does *not* follow from the original assumptions. However, this does not affect the validity of the results: the following line of reasoning should be used starting from inequality (16) to lead to inequality (22).

Our interest is in the inner product

$$(17) \quad (\mathbf{x} - \boldsymbol{\theta}, -\mathbf{Q}_c(\mathbf{x})) = (\mathbf{x} - \boldsymbol{\theta}, -\mathbf{M}_c(\mathbf{x})) + \sum_{i=1}^k (S_i^+ + S_i^-)$$

in which the quantities  $S_i^+$  and  $S_i^-$  are given by

$$(18) \quad S_i^\pm = -(x_i - \theta_i)G_i^\pm(x_i)\{M_{c,i}(\mathbf{x})[\pm M_{c,i}(\mathbf{x})\epsilon_y^{-1} - 1] \pm \epsilon_y^{-1}c^{-2}(t)\sigma_{y_i}^2\}.$$

Note that by assumption (ii) and the definition of  $G_i^\pm(x_i)$  that  $x_i - \theta_i > \delta$  when  $G_i^+(x_i)$  is non-zero and  $x_i - \theta_i < -\delta$  when  $G_i^-(x_i)$  is non-zero. The  $M_{c,i}^2\epsilon_y^{-1}$  and  $\sigma_{y_i}^2\epsilon_y^{-1}$  terms thus always make a negative contribution to  $S_i^+$  or  $S_i^-$ . This allows an upper bound on the sum  $\sum_{i=1}^k (S_i^+ + S_i^-)$ . If we weaken this upper bound to ignore the  $\sigma_{y_i}^2$  terms and combine the resultant with inequality (16) and assumption (ii), we obtain

$$(19) \quad (\mathbf{x} - \boldsymbol{\theta}, -\mathbf{Q}_c(\mathbf{x})) \leq -2K_0[1 - (\epsilon_y/2K_0\sigma^2) \sum_{i=1}^k (b_i - a_i)] \|\mathbf{x} - \boldsymbol{\theta}\|^2 + k^{\frac{1}{3}}P^{\frac{1}{3}}c^2 \|\mathbf{x} - \boldsymbol{\theta}\|.$$

For  $\epsilon_y$  suitably small, the original inequality (22) then results with a suitable redefinition of  $K_0$ ,  $K_0 > 0$ , and  $K_4 = \frac{1}{3}k^{\frac{1}{3}}P$ .

## CORRECTION TO LIMITING BEHAVIOR OF POSTERIOR DISTRIBUTIONS WHEN THE MODEL IS INCORRECT

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Additions and corrections to page 53, *Ann. Math. Statist.* **37** 51–58. Line 5 should read:

$$A_i = \{\theta: \{x: f(x | \theta) > 0\} - B_i = \phi[F]\}.$$