

## CORRECTION

### BLOCKED REGULAR FRACTIONAL FACTORIAL DESIGNS WITH MAXIMUM ESTIMATION CAPACITY

BY CHING-SHUI CHENG AND RAHUL MUKERJEE

*The Annals of Statistics* (2001) **29** 530–548

Due to a production error, corrections for this paper did not appear in the published version. Following is corrected text for the respective parts.

Replace “not” by “nor” in line 9 of the Abstract.

Equation (2.1) on page 532 should read:

$$E_u(d) = \begin{cases} \sum_{1 \leq i_1 < \dots < i_u \leq f} \prod_{j=1}^u m_{i_j}(d), & \text{if } u \leq f, \\ 0, & \text{otherwise.} \end{cases}$$

In Remark 3.2, page 535, the second sentence should read:

As an illustration, let  $s = 3$ ,  $n = 10$ ,  $k = 7$ ,  $r = 1$  (so  $f = 2$ ) and consider two  $(3^{10-7}, 3)$  RME designs  $d_i = d(C_0, C_i)$ ,  $i = 1, 2$ , where  $C_0 = \{(1, 0, 0)^T\}$ ,  $\bar{C}_1 = \{(0, 1, 0)^T, (1, 1, 0)^T\}$  and  $\bar{C}_2 = \{(0, 1, 0)^T, (0, 0, 1)^T\}$ , with  $\bar{C}_i = P - (C_0 \cup C_i)$ ,  $i = 1, 2$ .

Equation (4.1) on page 536 should read:

$$\phi_i(C_0, C) \leq \frac{1}{2} \min\{f(f-1), s(f-1), (s-1)(f+L_r-1)\}.$$

The second sentence of Remark 4.2 should read:

This requirement regarding rank is clearly satisfied if  $C_0 \cup \bar{C}$  is contained in an  $(n-k-2)$ -flat of  $P$ .

The paragraph after Remark 4.3 should read:

In view of Theorem 4.1(a), we note that between the two designs  $d_1$  and  $d_2$  considered in Remark 3.2, only  $d_1$  has maximum estimation capacity. Hence it is natural that  $d_1$  dominates  $d_2$ . Some more examples follow.

On page 540, line –6, “shown” should be “shows.”

On page 543, line 8,  $\phi$ ; should be  $\phi_i$ .

On the same page, line –3, “if only if” should be “if and only if.”

On page 544, line 10 should read:

(c1) Let  $s \geq 3$ . Suppose  $\text{rank}(\alpha^{(1)}, \dots, \alpha^{(f-1)}) = u$ , where  $2 \leq u \leq r$  (note that  $u \geq 2$  as  $f > s$ ).

On line 19 of the same page, the word “nothing” should be “noting.”

On page 545 in Step 1,  $\pi_{j_1}, \pi_{j_2}$  should read  $\pi_{j_1}, \pi_{j_2}$ .

On page 546, equation (A.22) should read:

$$\pi_w + \pi_i \in G \quad \text{whenever } \pi_i \in G \text{ and } \pi_i \neq \pi_w, \pi_j.$$

In the first line after (A.24) on page 546,  $\pi'_i$  should be  $\pi_i$ .

In the second paragraph of the proof of Theorem 5.2 (the “If” part),  $V(C)$  should be  $\mathbf{V}(C)$ .

In the References, Chen, C. S. and Cheng, C. S. (1997) should be:

CHEN, H. and CHENG, C. S. (1999). Theory of optimal blocking of  $2^{n-m}$  designs. *Ann. Statist.* **27** 1948–1973.

Also, the reference for Franklin (1985) is:

FRANKLIN, M. F. (1985). Selecting defining contrasts and confounding effects in  $p^{n-m}$  factorial experiments. *Technometrics* **27** 165–172.

UNIVERSITY OF CALIFORNIA  
DEPARTMENT OF STATISTICS  
367 EVANS HALL #3860  
BERKELEY, CALIFORNIA 94720–3860

CENTER FOR MANAGEMENT  
AND DEVELOPMENT  
INDIAN INSTITUTE OF MANAGEMENT  
CALCUTTA  
INDIA