

ERRATA TO OPTIMAL SCALING OF PAIRED COMPARISON AND RANK ORDER DATA: AN ALTERNATIVE TO GUTTMAN'S FORMULATION

SHIZUHIKO NISHISATO
THE ONTARIO INSTITUTE FOR STUDIES IN EDUCATION

Two formulas in Nishisato [1978] were erroneous. The correct versions of them are as follows:

| | <i>Errors are</i> | <i>Should be</i> |
|----------------------|---|---|
| Formula (9), p. 265 | $SS_t = 2N\mathbf{x}'\mathbf{x}$ | $SS_t = N(n-1)\mathbf{x}'\mathbf{x}$ |
| Formula (10), p. 266 | $SS_b = \left[\frac{2}{n(n-1)^2} \right] \mathbf{x}'E'E\mathbf{x}$ | $SS_b = \left[\frac{1}{n(n-1)} \right] \mathbf{x}'E'E\mathbf{x}$ |

The other formulas and the discussion are correct.

REFERENCE

Nishisato, Shizuhiko. Optimal scaling of paired comparison and rank order data: An alternative to Guttman's formulation. *Psychometrika*, 1978, 43, 263-271.