

Additions and Corrections

"M.H.Alamatsaz- On Modality and Divisibility of Poisson and Binomial Mixtures. J.Sci. I.R. Iran, Vol.1, No.3, Spring 1990."

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As it was brought to the author,s attention by Dr.D.N.Shanbhag and Dr. A. Alzaid (private communication) Example 2 of the paper is erroneous in view of the following theorem.

Theorem: Given any $t > 0$, the Poisson mixture

$$P_n(t) = \frac{1}{n!} \int_{[0, \infty)} e^{-\lambda t} \frac{(\lambda t)^n}{n!} dG(\lambda) \quad n = 0, 1, 2, \dots$$

is a strongly unimodal lattice distribution if, and only if, G is strongly unimodal. This theorem is an obvious consequence of theorem 6.1 in S. Karlin (total positivity, Vol. 1, Stanford University Press, California, 1968, p412). The paper also contains several misprints; these are pointed out as follows:

p202 (and 205), l 12, and 2, column no. 0 (and 2): Shanbhagh should be Shanbhag.

p203, l 3, column no. 2: $c (< 0)$ should be $c (\geq 0)$.

p205, l 5, column 1: $p_0 - .4 > p_1 - .02$ should be $p_0 \approx .04 > p_1 \approx .02$.

6, column 1: $.02 - p_1 < p_2 - .17$ should be $.02 \approx p_1 < p_2 \approx .17$.

l-8, column 1: $\psi \alpha (s)$ should be $\psi_{\alpha} (s)$.

14, column 2: $p(z) - k \frac{1-cz}{1-dz} |z| < 1/d$ should be $p(z) - k \frac{1-cz}{1-dz}, |z| < 1/d$.

p206, l 8, column 1: $G_i(\alpha)(z)$ should be $G_i^{(\alpha)}(z)$.

16, column 1: $\mu - ct\gamma$ should be $\mu - ct\gamma$.

l-2, column 1: $n = 0, 1, 2, \dots, n$ should be $r = 0, 1, 2, \dots, n$.

l-11, column 2: $g_r - \int_0^r$ should be $g_r - \int_0^1 \dots$

p207, l 11, column 1: $\int_{(0, p_0)}$ should be $\int_{(0, p_0]}$

l-6, column 2: Goldie should be Goldi.

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