

Corrigendum

Corrigendum to “Comparison of Some Tests of Fit for the Inverse Gaussian Distribution”

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In the article titled “Comparison of some tests of fit for the Inverse Gaussian distribution” [1], there were a number of typographical and other errors. Except for the minor typographical error in V_0 below, all calculations reported appear to be correct.

In (2.1) + sign in the denominator should be omitted so that the denominator is $24(\dots)(\dots)$. Also a hat is missing on ϕ and the last $\hat{\phi}$ should not be cubed. Thus

$$\begin{aligned} \widehat{V}_3^2 &= \frac{n\widehat{\phi}^6}{24(4 + \widehat{\phi})(120 + 75\widehat{\phi} + 15\widehat{\phi}^2 + \widehat{\phi}^3)} \\ &\times \left\{ \widehat{Z}^{-3}(4 + \widehat{\phi}) - \widehat{Z}^{-2} \left(\frac{60}{\widehat{\phi}} + 30 + 4\widehat{\phi} \right) + \frac{120}{\widehat{\phi}^3} + \frac{195}{\widehat{\phi}^2} \right. \\ &\left. + \frac{123}{\widehat{\phi}} + 32 + 3\widehat{\phi} \right\}^2. \end{aligned} \quad (1)$$

In (2.2) the first occurrence of $1+$ should be $1-$. Thus

$$\begin{aligned} V_0 &= \frac{1}{n} \sum_{j,k=1}^n Z_j^{-1} \\ &- 2 \sum_{j=1}^n Z_j^{-1} \left\{ 1 - \sqrt{\frac{\pi\widehat{\phi}}{2Z_j}} \operatorname{erfc} \left(\frac{(Z_j + 1)\sqrt{\widehat{\phi}}}{\sqrt{2Z_j}} \right) \right\} \\ &+ \frac{n(1 + 2\widehat{\phi})}{4\widehat{\phi}}. \end{aligned} \quad (2)$$

In (2.5) and (2.6) n s before e_3 and e_4 should both be deleted. Thus

$$\begin{aligned} \pi_3(z) &= \frac{(z^3 - a_3z^2 - b_3z - c_3)}{\sqrt{e_3}}, \\ \pi_4(z) &= \frac{(z^4 + a_4z^3 + b_4z^2 + c_4z + d_4)}{\sqrt{e_4}}. \end{aligned} \quad (3)$$

In the definition of e_4 following (2.6) -253440 should be $+253440$.

In example (ii) the value of V_0 should be 0.0033.

References

- [1] D. J. Best, J. C. W. Rayner, and O. Thas, “Comparison of some tests of fit for the inverse Gaussian distribution,” *Advances in Decision Sciences*, vol. 2012, Article ID 150303, 9 pages, 2012.



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