# CORRIGENDUM

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#### Scandinavian Journal of Statistics

# Corrigendum to "Shannon Entropy and Mutual Information for Multivariate Skew-Elliptical Distributions" published in Scandinavian **Journal of Statistics (2013), vol. 40, pp. 42–62**

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We thank Florian Stijven, Ariel Alonso Abad, and Gökçe Deliorman for pointing out typos in the signs of the formula for the mutual information index for the Student's t case (p. 47, last formula of Section 2.4). The correct formula is:

$$\begin{split} I_{\mathbf{XY}}^{T_{n+m}}(\mathbf{\Omega}, \mathbf{v}) &= I_{\mathbf{XY}}^{N_{n+m}}(\mathbf{\Omega}) + \log\left[\frac{\Gamma(\mathbf{v}/2)\Gamma\{(\mathbf{v}+n+m)/2\}}{\Gamma\{(\mathbf{v}+n)/2\}\Gamma\{(\mathbf{v}+m)/2\}}\right] + \frac{\mathbf{v}+m}{2}\psi\left(\frac{\mathbf{v}+m}{2}\right) \\ &+ \frac{\mathbf{v}+n}{2}\psi\left(\frac{\mathbf{v}+n}{2}\right) - \frac{\mathbf{v}+n+m}{2}\psi\left(\frac{\mathbf{v}+n+m}{2}\right) - \frac{\mathbf{v}}{2}\psi\left(\frac{\mathbf{v}}{2}\right). \end{split}$$

These typos have also been mentioned in De Keyser and Gijbels (2024), see their Example 3, albeit without providing the corrected formula.

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### REFERENCE

De Keyser, S., & Gijbels, I. (2024). Hierarchical variable clustering via copula-based divergence measures between random vectors. International Journal of Approximate Reasoning, 165, 109090.

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