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LETTER TO THE EDITOR

Comment on ‘Rectangular distribution whose width is not exactly known: isocurvilinear trapezoidal distribution’

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Abstract

Important equations in a paper published in this issue were previously derived in work by the present author that is not cited there.

I would like to call the attention of the readers of *Metrologia* to [1]. In my opinion, the most important points of this paper are equations (3.4) and (4.8) therein. However, it turns out that those equations were derived previously in [2] (equations (38) and (42)) and in [3] (equations (3.20) and (3.21)). More importantly, they were recently obtained as a special case of a much more general probability density function in [4] (equations (23)–(25)). Neither of these references was cited in [1].

References

- [1] Kacker R N and Lawrence J F 2009 Rectangular distribution whose width is not exactly known: isocurvilinear trapezoidal distribution *Metrologia* **46** 254–60
- [2] Lira I and Woger W 1998 The evaluation of the uncertainty in knowing a directly measured quantity *Meas. Sci. Technol.* **9** 1167–73
- [3] Lira I 2002 *Evaluating the Uncertainty of Measurement. Fundamentals and Practical Guidance* (Bristol: Institute of Physics Publishing)
- [4] Lira I 2008 The generalized maximum entropy trapezoidal probability density function *Metrologia* **45** L17–20