

inquiry about your study on testing normality using summary statistics with application to meta-analysis

██████████@uq.edu.au>

Thu 2018-12-20 20:58

To:Tiejun TONG <tongt@hkbu.edu.hk>

Dear Dr. Tong,

This is a PhD student from University of Queensland. I have enjoyed reading your paper titled 'testing normality using the summary statistics with application to meta-analysis'. This paper has provide very useful information for meta-analysis. Thank you very much. In the paper, test statistics (please see the picture below) were provided to test if underlying data are normally distributed. I have difficulty in understanding what " Φ " is. Could you please kindly provide me some more explanation about Φ ? I am also wondering if you have an excel sheet for this test statistics. If you have, I greatly appreciate you forwarding it to me.

Thank you again for such a great paper.

I wish you a Merry Christmas and Happy New Year.

Table 10: Summary table of the test statistics under three scenarios

	Test statistic	Coefficient
Scenario \mathcal{S}_1	$T_1 = \frac{\tau(n)(a+b-2m)}{b-a}$	$\tau(n) = 2\Phi^{-1}\left(\frac{n-0.375}{n+0.25}\right) / \sqrt{\frac{\pi^2}{6\log(n)} + \frac{\pi}{n}}$
Scenario \mathcal{S}_2	$T_2 = \frac{\varphi(n)(q_1+q_3-2m)}{q_3-q_1}$	$\varphi(n) = 1.09\sqrt{n}\Phi^{-1}\left(\frac{0.75n-0.125}{n+0.25}\right)$
Scenario \mathcal{S}_3	$T_3 = \frac{\kappa(n)(a+b+q_1+q_3-4m)}{b-a+q_3-q_1}$	$\kappa(n) = \frac{[2\Phi^{-1}\left(\frac{n-0.375}{n+0.25}\right) + 2\Phi^{-1}\left(\frac{0.75n-0.125}{n+0.25}\right)]}{\sqrt{\frac{\pi^2}{6\log(n)} + \frac{10.5}{n}}}$

Kind Regards,

██████████

██████████

PhD Candidate | Physiotherapy Division | School of Health and Rehabilitation Science | The University of Queensland | St Lucia, Brisbane, QLD 4072 Australia

Email: ██████████@uq.edu.au | Tel: ██████████ | [ResearchGate](#)