



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2013_BJMCS_6464
Title of the Manuscript:	Power Transformations and Unit Mean and Constant Variance Assumptions of the Error Component of a Multiplicative Error Model: The Generalized Gamma Distribution
Type of the Article	Research Paper

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	1)As mentioned in <u>General Guideline for Authors</u> The abstract should be concise and informative. <u>It should not exceed 300 words in length</u>. It should briefly describe the purpose of the work, techniques and methods used, major findings with important data and conclusions. 2) I think the recommendations part with in <u>abstract</u> from [Finally, based on the to a Maxwell distribution] should be written with results or discussion. 3)The authors must gives the references for these equations (1,3,6 and 12) 4) Number eq.12 repeated twice (change the second one to no. 15) 5) The authors must check the equations 20 and 21 with reference (Ohakwe J 2012), for the parameter a is (a or $\sqrt{a}$) in these equations. 6)<u>Results</u>: before the last paragraph, [Furthermore, for <u>the square</u> transformation Table(11)]. Must be change to [Furthermore, for <u>the inverse square</u> transformation Table(11)]	1. Amended as recommended: now reduced to <300 words without losing the basic information. 2. Agreed and amended as recommended: deleted from the Abstract section and left in the conclusion Section. 3. References 1 and 3 have now been provided however 6 and 12 are common mathematics that do not need special references. For instance in (6); suppose $A = BC$, the $A^2 = (BC)^2 = B^2 \times C^2$ For (12); This is simply an integration by substitution: Suppose $f(x) = \int e^{-kx} dx$, one can substitute $u = kx$ and dx now becomes $\frac{du}{k}$ so that $f(x) = \int e^{-u} \frac{du}{k} = \frac{1}{k} \int e^{-u} du$ and continue accordingly. 4. Agreed and amended. 5. They are very much consistent with Ohakwe et al., (2012) 6. Amended as recommended.



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<u>Minor</u> REVISION comments	1) The last paragraph of the results [Finally, for the square transformation (Table 12), either the mean or the variance or both are undefined for the various distributions except the Maxwell distribution that maintained the unit mean even though its increased after the transformation. Here it is only the Maxwell distribution that maintained the unit-mean assumption]. <u>The authors must check this part with the table 12.</u> 2) Most paragraphs of the introduction are taken completely without any change from the reference (Ohakwe J 2013), and they are not mentioned, why?	1. Amended: the word “variance” was missing from the sentence. 2. The effected paragraphs have been amended and references included where necessary. Also Some of the paragraphs were entirely recast.
<u>Optional/General</u> comments	1) In Table 10 the results for variance are disappears. 2) From eq.15 $y^{(bc/p+k-1)}$ or $y^{(bc/p+k)-1}$ Also for eq. $E(Y^k)=\dots\dots\dots\{w^{p/c}/a^p\}^{(bc/p+k)-1}$ or $\dots\dots\{w^{p/c}/a^p\}^{(bc/p+k-1)}$ 3) The authors must check Table(12) and the paragraph [It is seen in Table 12 that by the methodology, the means and variances resulting from the application of the unit-mean-conditions of the untransformed distribution to the transformed distribution are <u>undefined</u> for the Gamma (a, b, 1) where a = b = 1].....or <u>defined</u> for the Gamma (a, b, 1) as shown in Table (12).	1. The tables had been adjusted to make their contents visible 2. The equations are correct. They are $y^{\left(\frac{bc}{p}+k\right)-1} \text{ and } \left(\frac{w^{\frac{p}{c}}}{a^p}\right)^{\left(\frac{bc}{p}+k-1\right)}$ 3. Checked and corrected