



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_24494
Title of the Manuscript:	A STUDY OF THE ESTIMATION OF THE GINI COEFFICIENT OF INCOME USING LORENZ CURVE
Type of the Article	Original Research Article

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.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

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)
<u>Compulsory</u> REVISION comments	Below I present a list of comments. They are mainly intended for improvements of the text in order to help the reader	
<u>Minor</u> REVISION comments	1) Line 79 Explain why the degree 5 is chosen 2) Line 91 has a constant slope. The Lorenz curve has a positive increasing slope (as presented above) 3) Line 99 The estimate of the Lorenz curve. I think that the authors are talking about the area below the Lorenz curve 4) Line 122 Is it necessary to talk about both <i>Absolute error</i> and <i>Bias</i>? 5) Line 127 Explain Romberg's rule more in detail. 6) Lines 142-144 The explanation need to be improved. 7) Line 165 See line 99. The exact integration see line 127 8) Line 191 See line 99.	1) Based on Simulations, the Polynomial of order 5 have been proved to be better than polynomials with lesser degrees. Please see page 3, lines 82-83. 2) The Corrections have been effected. Please see page 4, line 95. 3) Correction effected. Please see page 4, line 103. 4) Yes, it is necessary since both the Absolute error and bias are necessary to completely characterize the area under the Lorenz curve and Gini coefficient's error since the authors are comparing competing numerical integration techniques. Please see pages 162-164. 5) Please the Romberg numerical integration is explained into details from pages 133-160. 6) The explanation to line 142-144 has been improved. Please see the Corrections in page 7, line 172-175. 7) Please, Correction wasn't effected



SDI Review Form 1.6

		since Table 1 on Lorenz curve is omitted to reduce the number of Tables. Also, the correction on the exact integration on page 5, line 132 is affected. 8) Please, Correction wasn't effected since Table 4 on the Lorenz curve is omitted to reduce the number of Tables
<u>Optional/General</u> comments	The tables could be shortened. The Gini index = 1-2 times "the Lorenz curve" See the formulae (7) and (8).	Please the Lorenz curve table is omitted in other to shorten the tables.