



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_14080
Title of the Manuscript:	Hypergeometric Representation of Modified Beta Stancu Type Operators
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.

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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)
<u>Compulsory</u> REVISION comments	Page 2: Line 3, the range of α and β should be given, Page 2: In Lemma 1, the condition $n > r + 1$ or $n \geq r + 2$ must be added, Page 3: The notations for the central moments of the operators $B_{n,\alpha,\beta}(f, x)$ and $B_n(f, x)$ are same i.e. $T_{n,m}(x)$ which should be changed in entire manuscript. Page 5: Lemma 5, the upper limit in the summation sign $\sum$ should be r instead of k, Page 5: Theorem 1, x must be taken in a finite sub interval of $[0, \infty)$, Page 5: Theorem 1, the appropriate growth conditions should be given for the derivatives $f^{(j)}(x)$, $j = 1, 2, \dots, r+2$ Page 5: Theorem 1, The authors claim that $\varepsilon(t, x) = o((t - x))$ which should be explained, since under the conditions of the Theorem 1, there holds the order $\varepsilon(t, x) = O((t - x))$. Page 5: In the definition of λ the condition $\lambda \geq \max\{\gamma, r+2\}$ should be replaced by $\lambda > \max\{\gamma, r + 2\}$, Page 6: The original reference to the Taylor's type expansion used in the proof of Theorem 2 should be given.	In line no.5 of same page written as a "special Case". It seems correct. It seems correct. Done as per your recommendation. Done as per your recommendation. It seems correct. Done as per your recommendation. Done as per your recommendation. Already written there.



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	Page 6,7: The function $\chi(t)$ should be the characteristic function of the interval $(x - \delta, x + \delta)$. This change is crucial otherwise the estimates of $ J_2 $ and $ f(m)(\xi) - f(m)(\xi) \leq \omega(f(m), \delta)$ in page 7 do not hold.	It seems correct
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Minor REVISION comments	Page 1: The sentences in line 11-13 from bottom should be revised.	Done as per your recommendation.
	Page 2: Line 3, the term “modified Beta Stancu” should be replaced by “modified Beta”	Done as per your recommendation.
	Page 2: Line 13, the term “asyptotic” should be replaced by “asymptotic”,	Done as per your recommendation.
	Page 3: In Lemma 3, the term “ $T_{n,m}(x)$ is a polynomial” should be replaced by “ $T_{n,m}(x)$ are polynomials” since the author follow the same terminology for the term $B_n(f, x)$ etc.	Done as per your recommendation.
	Page 3: In Lemma 4, $m \in \mathbb{N} \cup \{0\}$ should be given.	Done as per your recommendation.
	Page 3: In Lemma 4, the term “we have...” should be replaced by “ We have....”	Done as per your recommendation.
	Page 3: Line 2 from bottom, the term “it easily verified” should be replaced by “ it is easily verified”	Done as per your recommendation.
	Page 4: Line 3, the recurrence relation of appropriate lemma should be mentioned.	Already mentioned.
	Page 4: Line 9, the term $T'_{n,m}$ should contain the argument (x) ,	Done as per your recommendation.
	Page 4: Line 17, the term “Now taking” should be replaced by “Now writing”,	Done as per your recommendation.
	Page 5: Line 1,2 from bottom, the sentence “For $ t-x \geq \delta$, since...” should be revised or changed,	Already changed.
	Page 6: Line 6 from bottom, the interval $(0, \infty)$ should be	Done as per your recommendation.



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	typed as $(0, \infty)$. Page 8: Line 11, $\geq (\gamma, m)$ to be replaced by $\geq \max\{\gamma, m\}$. Page 8: The references [11] and [18] should be written in standard formats used in other references.	Done as per your recommendation. Done as per your recommendation.
<u>Optional/General</u> comments	The authors find expressions for the central moments of the Modified Beta Stancu Operators using hypergeometric series notations and relations. They establish Vornovskaya type asymptotic formula and obtain error estimates in simultaneous approximation. In my opinion the results of the paper are satisfactory for the publications.	