

## Review Form 1.6

Journal Name:	<a href="#">Asian Research Journal of Mathematics</a>
Manuscript Number:	Ms_ARJOM_93300
Title of the Manuscript:	Fixed point theorems in metric spaces using $\alpha$ -admissible mappings
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:

(<https://www.journalarjom.com/index.php/ARJOM/editorial-policy> )

**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)
<b>Compulsory</b> REVISION comments		
<b>Minor</b> REVISION comments	<p>Please make a revision as referee`s report  <b>Confidential comments to authors:</b></p> <p><b>In this paper, the authors proved the fixed point theorems in a complete metric space by using <math>\alpha</math>-admissible mapping with some suitable conditions. Some existing results of literature will be deduced from the main results. And also, they provided an example to support for the main theorems. After reviewing, I think that the main results are interesting and new. So, I recommend this paper for publication in the journal " Axioms"</b></p> <p>But the author have to make <b>a revision</b> as follows:</p> <p>1. page 1:            (1) in Title: Please change the title like this:            " Fixed point theorems for <math>\alpha</math>-admissible mapping in complete metric spaces"</p> <p>(2) in Abstract:            line 1~2: "in metric space using <math>\alpha</math>-admissible mapping."            =&gt; " for <math>\alpha</math>-admissible mapping in complete metric spaces with suitable conditions"</p> <p>(3) in Introduction:            line 1: "in the complete" =&gt; "in a complete"            line 5: "in metric space" =&gt; "in a metric space"</p> <p>2. page 2:            (1) in Theorem 3.1;            line 8: "<math>(\alpha, Tx) \geq 1</math>" =&gt; "<math>\alpha(x, Tx) \geq 1</math>"</p> <p>lines 11, 13, 18: "<math>\forall</math>" =&gt; " for all"</p> <p>3. page 3:            (1) lin 8: " =&gt; " =&gt; " it implies"            (2) line 9: "<math>\forall</math>" =&gt; " for all"            (3) line 15: " Which implies" =&gt; " which implies"</p> <p>4. page 4:            (1) line -1: "<math>\beta</math> function" =&gt; " function <math>\beta</math>"</p> <p>5. page 5:            (1) line 4: "continuous, then we " =&gt; " continuous, we"            ( delete the "then")</p>	

## Review Form 1.6

(2) line 7: "Now" => " Next"

6. page 6:

(1) lines 1, 4, 6, 7; " $\forall$ " => " for all"

(2) line -7: " If possible suppose that" => "Suppose that"

(3) line -2: " $\exists$ " => " there exists a "

7. page 7:

(1) line 6: " $\beta$  function" => " function  $\beta$ "

(2) line 7: delete the symbol " =>"

8. page 8:

(1) line 5: " => " => " This implies that"  
" a contradiction" => " which is a contradiction"

(2) line 6: " $\{x_n\} \rightarrow x$ " => " $x_n \rightarrow x$ "

(3) line 9~10 => This means that x is a fixed point of T

(4) line -4: "=>" => " Hence, we have"

9. page 9:

(1) line 2 => " Hence, x is a fixed point of T"

(2) line 7, 10, 11, 13: " $\forall$ " => " for all"

(3) line -3: " If possible assume that" => "Suppose that"  
" , then " => ". Then"

10. page 10:

(1) line 2: " $\forall$ " => " for all"

(2) line 3: " $\exists$ " => " there exists a "

(3) line 8: "=>" => " Hence, we have"

11. page 11:

(1) line 6: "=>" => " It implies that"

(2) line 8: " $\{x_n\} \rightarrow x$ " => " $x_n \rightarrow x$ "

(3) line 12: "Now" => " Next"  
" , then " => ". Then"

(4) line -6: delete the symbol period "." at the end of line

(5) line -1: " =>  $Tx = x$ " =>  
" Hence, x is a fixed point of T"

12. page 12

(1) in theorem 3.4:  
line 4: We obtain ... fixed pint"

**Review Form 1.6**

	<p>=&gt; " Then the fixed point of T is unique "</p> <p>line 6: "holds, then" =&gt; " holds. Then"</p> <p>line 14: "<math>\Rightarrow \beta(d(z, z^*)) = 1</math>"</p> <p>=&gt; " Hence ,we have <math>\beta(d(z, z^*)) = 1</math>."</p> <p>line 15: "<math>\Rightarrow d(z, z^*) = 0 \Rightarrow z = z^*</math>."</p> <p>=&gt; " Therefore, <math>d(z, z^*) = 0</math>,that is, <math>z = z^*</math>."</p> <p>13. page 15: (1) in Corollary 4.4: line 3: " We obtain ... fixed pint" =&gt; " Then the fixed point of T is unique "</p> <p>14. In References: The following paper is related to your article, so please cite them in the References (cite in the Introduction.) [1] A.K. Dubey, M. Kasar and U. Mishra, T-contractive mapping and fixed point theorems in cone metric spaces with c-distance, Nonlinear Funct. Anal. Appl.,25(1) (2020), 127--134. [2] L. Khan, Fixed Point Theorem for Weakly Contractive Maps in Metrically Convex Spaces under C-Class Function,, Nonlinear Funct. Anal. Appl., 25(1)(2020), 153-160. [3] J. K. Kim, M. Kumar, Preeti, Poonam and W. H. Lim, Common fixed point theorems for two self maps satisfying <math>\xi</math>-weakly expansive mappings in dislocated metric space, Nonlinear Funct. Anal. Appl., 27(2)(2022), 271-287. [4] J.K. Kim, S. Dashputre, Padmavati and K. Sakure, Generalized <math>\phi</math>-nonexpansive mappings in Hyperbolic spaces, Nonlinear Funct. Anal. Appl., 27(3)(2022), 449-469.</p>	
<p><b>Optional/General</b> comments</p>		

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (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)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes. Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details:**

<p>Name:</p>	<p><b>Jong Kyu Kim</b></p>
<p>Department, University &amp; Country</p>	<p><b>Kyungnam University, South Korea</b></p>