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| Journal Name: | [**Asian Research Journal of Mathematics**](https://journalarjom.com/index.php/ARJOM) |
| Manuscript Number: | **Ms\_ARJOM\_133338** |
| Title of the Manuscript: | **Supra \* Generalized Closed Sets in Supra Bitopological Spaces** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | In this study, the author(s) defined and investigated the concept of the supra-star generalized closed (briefly S\_ij-g-closed) sets in supra bitopological space and established some properties of S\_ij g-closed set and S\_ij-g-open set. The author(s) has/have shown that the union and intersection of the two S\_ij-g-closed sets (resp. S\_ij-g-open sets) need not to be a S\_ij-g-closed (resp. Sij g-open). Additionally, author(s) has/have studied some properties of supra star generalized closure (briefly S\_ij-g-cl(A)) and supra star generalized interior (briefly Sij-g-int(A)). The study has significant influence in the literature. | This is my revised abstract: Topological structures hold enormous significance in different mathematical and computational areas, particularly in the analysis of relations and connectivity within networks. Bitopological spaces, which consist of a set equipped with two topologies, provided a richer structure for exploring interactions between different topological properties. Meanwhile, supra topology extends classical topology by allowing a more flexible definition of open sets, leading to a broader class of closure and interior operations. This study introduces a novel class of sets in the context of supra bitopological spaces, focusing on supra star generalized closed S\_\tau\_ij-\*g-closed sets. This study is driven by a desire to expand classical topological ideas within the framework of supra bitopological spaces. The research examines essential characteristics of these sets and their complementary structures, investigating their behavior in relation to closure and interior operations. Furthermore, it explores the supra star generalized closure and supra star generalized interior, thereby extending topological structure knowledge. These newly established sets and previously investigated topological structures demonstrate differences, which provide significant new perspectives on their unique properties. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | I would like to suggest the following title.  **Study on Supra \* Generalized Closed and Open Sets in Supra Bitopological Spaces** | I followed your suggested title but omitting the “Study”, and so my title of this article is,  **On Supra \* Generalized Closed and Open Sets in Supra Bitopological Spaces** |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | Some revisions are needed in the abstract section. An introductory sentence should be added at first which models the application of the study in the literature. The sentences should be written in active voice and present simple tense from the side of the author(s). | As shown my revised abstract shown above, I have already added the introductory sentence. Also I used an active voice and present simple tense. In addition, I check the grammatical error. |
| Is the manuscript scientifically, correct? Please write here. | There are some issues in the manuscript. The following **major** points should be considered before publication.   1. More illustrative material should be included in the introduction section. By including the following references, some significant works on current advancements in this topic and their applications have to be covered in the introductory section. 2. [https://doi.org/10.3329/jbas.v44i2.51458](https://doi.org/10.3329/jbas.v44i2.51458%20) , 3. <https://doi.org/10.69728/jst.v9.18> 4. <https://fs.unm.edu/IJMC/Study%20on%20Hausdorff%20Supra%20Fuzzy%20Bitopological%20Space-Approach%20of%20Quasi-Coincidence.pdf> 5. <https://fs.unm.edu/IJMC/An_In-depth_Exploration_on_Supra%20Fuzzy_R0_and_R1_Bitopological_Space_in_Quasi-coincidence_Sense.pdf> 6. The definition 2.6 should be checked: where is the triplet? 7. A brief introductory discussion is needed after the Section 3 and before the subsection 3.1. 8. In the definition 3.1, two supra topologies should be mentioned with X so that one can say that the X is supra bi-topological space. Similar comment is applicable for the definition 3.2. The definitions should be checked carefully. 9. The first sentence of the example 3.1 should be “consider the following two topologies on X” instead of “consider the following supra bitopological spaces on X”. 10. The supra bi-topological space should be mentioned explicitly in the theorem 3.2, that is X along with two supra topologies. This comment is applicable for the remaining definitions and theorems wherever it has been used in the whole paper. 11. There is no consistency in case of numbering the definitions, examples, theorem, remark, etc. Since subsection 3.1, 3.2 have been used that is why the numbering of the definitions, examples, theorem, remark, etc. under the subsection should follow the numbering system like Definition 3.1.1, Theorem 3.1.1 and so on. Please check it. 12. Punctuation marks should be checked throughout the article. 13. Clarify the motivation behind the study and novelty of work by comparing with existing literature. 14. There are grammatical errors and typos in the manuscript. Author(s) should remove these. 15. Future research direction of this study should be added in the conclusion section. | In this portion, I followed the suggested comments:I have incorporated the suggested references and articles in the introduction part.I have also checked and corrected the triplet. To avoid notation redundancy, I added some notations after each section and subsection in the introduction.I have also provided a brief introductory discussion of each section and subsection in Preliminaries and Main Results.I also incorporated it in the brief introduction about the relationship between X and supra bitopological space.I have followed this suggestion.I also incorporated it in the brief introduction about the relationship between X and supra bitopological space.I have also fixed the consistency of results numbering.I have also carefully checked the incorrect input and usage of punctuation marks.In this part, I have added a new section after the conclusion about the motivation and novelty of the study.I have fixed all the grammatical errors and typos in the whole manuscript.I have added the possible research interest that the readers may explore. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | I have mentioned it in the above section. | I have fixed it and added more references. |
| Is the language/English quality of the article suitable for scholarly communications? | The language and grammar should be polished. | I have also polished all the grammatical errors and misuse of punctuations. |
| Optional/General comments |  |  |

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| **PART 2:** | | |
|  | **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | No. |