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| Book Name: | **Innovative Solutions: A Systematic Approach Towards Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_ 3724.37** |
| Title of the Manuscript: | METRIC DIMENSIONS OF FLOWER GRAPHS |
| Type of the Article | **COMPLETE BOOK CHAPTER** |

PART 1: Review Comments

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| **Compulsory** REVISION comments | **Reviewer’s comment** | **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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | **This manuscript provides significant insights into the metric dimension of connected graphs, a topic with broad applications in fields such as robotics, network analysis, and optimization. By characterizing the metric dimension and distance matrices of specific graph families like sunflower graphs and flower snarks, it contributes to the understanding of graph structures in relation to their resolving sets. The practical implications, particularly in robotic navigation and strategic planning, highlight its relevance to both**  **theoretical and applied domains. This work stands out for its focus on unique graph types, which adds depth to the ongoing research in graph theory.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **My suggestion is the title should be: On the Metric Dimension of Sunflower Graphs and Flower Snarks. Because you don't define what a flower graph is.** |  |
| **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.** | **The abstract of the article is generally clear and provides a good overview of the topic, including the concept of metric dimension, its applications, and the specific focus on sunflower graphs and flower snarks. However, The title will discuss flower graphs, but in the abstract there are no words about what a flower graph is.** |  |
| **Are subsections and structure of the manuscript appropriate?** | **The writing structure should be:**   1. **INTRODUCTION** 2. **INITIAL RESULTS** 3. **MAIN RESULTS**    1. **METRIC DIMENSION ON FLOWER SNARK GRAPH.**    2. **METRIC DIMENSION ON SUNFLOWER GRAPH**   **4. CONCLUSION** |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | **This manuscript appears to be scientifically robust and technically sound as it builds upon well-established concepts in graph theory, such as metric dimension and resolving sets, which are fundamental and widely studied in mathematics and computer science. The characterization of specific graph families like sunflower graphs and flower snarks demonstrates a focused and systematic approach, suggesting that the authors have addressed a specialized but meaningful problem. The connection of these findings to practical applications, such as robotic navigation and strategic planning, further validates the relevance and utility of the research. If the proofs and methodologies employed are rigorously developed and validated, this**  **manuscript would contribute substantially to the field of graph theory.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **There are too few references related to other graphs whose metric dimensions have been obtained. It would be better to add some references to other graphs whose metric dimensions have been found. Starting from the simplest graphs to the latest discoveries related to certain graphs whose metric dimensions have been**  **obtained.** |  |

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| Minor REVISION comments  **Is the language/English quality of the article suitable for scholarly communications?** | **The language and English quality of the article seem generally suitable for scholarly communication. The abstract and text effectively convey the key ideas and technical terms, which are appropriate for an academic audience. However, there are minor areas where sentence structure or phrasing could be improved for greater clarity and precision. For example, simplifying some sentences and avoiding redundancy could enhance readability. A thorough proofreading and editing process would ensure that the manuscript meets the highest standards for scholarly publication.** |  |
| **Optional/General** comments | **This article is good and in accordance with scientific writing. Some things that need to be improved are providing graphs that have been studied by previous researchers. Also explaining what a flower graph is and what graphs are included in flower graphs. Maybe the author can also provide examples in the form of general images for some of the theorems produced.** |  |

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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)* |  |

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| Reviewer Details: | |
| Name: | **Muhammad Rafif Fajri** |
| Department, University & Country | **Institute Teknologi Bandung, Indonesia** |