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| Book Name: | [**Science and Technology: Developments and Applications**](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4836** |
| Title of the Manuscript:  | **Use of RPAS (DRONES) for Masonry Arch Bridges Inspection: Quality and Sustainable Work with Preventive Guarantee** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Revista de Gestão Social e Ambiental, 18(12): 1-29, 2024.**

**DOI:** [**https://doi.org/10.24857/rgsa.v18n12-048**](https://doi.org/10.24857/rgsa.v18n12-048)

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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.** | This study is important because it shows how drones can be used to inspect old masonry bridges in a safe and cost-effective way. It helps engineers and heritage experts understand how drones can replace traditional inspection methods while reducing risks. The research also suggests new ways to use advanced sensors for better inspection and conservation of historic structures. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title is clear, it is straightforward and direct.  |  |
| 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 is well-structured and provides a clear summary of the study. However, it can be improved by briefly mentioning the key findings related to cost savings, time efficiency, and safety improvements. Additionally, reducing repeated mentions of drones replacing traditional methods can make it more concise. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The manuscript is scientifically accurate as it follows a clear method, presents reliable results, and draws logical conclusions. However, adding more data comparing drones with traditional inspection methods and explaining some technical details more clearly could make it even stronger. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The manuscript includes some recent references, which add to its relevance. However, it would be beneficial to include a broader range of the latest studies to ensure a comprehensive background. Adding more recent journal articles on drone technology and structural inspections could further enhance the credibility of the research**.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language of the article is clear and easy to understand, making it suitable for academic discussions. It communicates the key ideas effectively, and the content is well-organized. A few small improvements in sentence structure could make it even more polished, but overall, it is well-written. |  |
| Optional/General comments | This article presents a valuable contribution to the field of bridge inspections using drones. It clearly explains how drones can be used to inspect ancient bridges safely and efficiently, reducing risks and costs. The study is well thought out and provides practical insights that could help in preserving cultural heritage. It also opens the door for future advancements, such as incorporating more advanced sensors for even better inspections. Overall, the article is informative and offers useful knowledge for both researchers and professionals in the field. |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* |  |

**Reviewers:**

**Jonnala Subba Reddy, Lakireddy Bali Reddy College Of Engineering, India**