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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\_5434** |
| Title of the Manuscript:  | **Innovative Driving Mechanism Design for Enhanced Endoscopic Instruments** |
| 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.**

**North American Academic Research, 7(12): 449-456, 2024.**

**Doi:** [**https://doi.org/10.5281/zenodo.14646426**](https://doi.org/10.5281/zenodo.14646426)

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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 manuscript is of considerable importance to the scientific community as it presents an innovative solution to existing limitations in endoscopic surgery. By introducing a new driving mechanism that enhances control, precision, and user-friendliness, the study contributes meaningfully to the advancement of minimally invasive surgical techniques. The integration of rigorous mechanical design with biomedical applications underscores the interdisciplinary approach required in modern medical device development. Additionally, the detailed account of the design and engineering process serves as a valuable resource for researchers and developers aiming to further improve surgical tools and patient care. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | “Revolutionizing Endoscopic Tools: An Innovative Approach to Driving Mechanism Design”. This title appears more suitable. |  |
| 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. | Your abstract provides a solid overview of the study's goals, methodology, and significance. It effectively conveys the innovation and potential impact of the new endoscopic driving mechanism. However, there are a few areas where it could be improved for clarity, completeness, and structure. **Suggestions-** 1. Briefly specify the unique feature(s) of your driving mechanism — is it smaller, more precise, easier to control, more modular, etc.?
2. Indicate what kinds of mechanical or ergonomic evaluations were conducted — e.g., FEA (Finite Element Analysis), stress testing, motion range testing, etc.
3. Add a brief statement on the current stage of development or real-world applicability (e.g., “Prototype has been tested in simulated environments”).
4. Consider splitting the abstract into 2-3 coherent paragraphs — one for the background and problem, one for the solution/methodology, and one for implications or future work. This helps readability.
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| **Is the manuscript scientifically, correct? Please write here.**  | **Yes, the manuscript is scientifically correct.**It presents accurate, well-supported points about the clinical and technological importance of endoscopic instruments. With minor revisions for citation support, slight clarification, and balance, it would be well-suited for inclusion in a scientific or engineering paper. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references cited in this manuscript are both recent and relevant, effectively supporting the key points discussed. However, they require reformatting to comply with the Vancouver referencing style, which is widely recognized and accepted by numerous scientific and medical journals. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Your section is rich in technical detail and shows a clear understanding of the biomedical instrument design process. However, for **scholarly communication**, the language can be refined for **consistency, formality, and clarity**.Suggestion: 1. **Inconsistent formatting and structure** – e.g., repetition of "Material" and "Design Feature" headers could be more integrated into full sentences.
2. **Informal tone in places** – e.g., "quick-lock mechanism for secure attachment" is understandable but could be expressed more precisely.
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| Optional/General comments |  |  |

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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?**  |  |  |

**Reviewer details:**

**Ayushi Sharma, Swami Vivekanand Subharti University, India**