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| Book Name: | [Engineering Research: Perspectives on Recent Advances](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4531** |
| Title of the Manuscript: | **Design of a Novel Robotic Fish Structure Utilizing PVC Gel Actuators** |
| Type of the Article | **BOOK CHAPTER** |

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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 presents a significant advancement in the field of bioinspired robotics, particularly in underwater exploration and surveillance. By integrating PVC gel actuators and a carefully optimized fish-like structure, the proposed bionic robot fish offers a promising solution for silent and efficient underwater locomotion. This research contributes to the scientific community by providing insights into bioinspired propulsion mechanisms and expanding the potential applications of soft robotics in underwater operations.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| 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. | **Yes** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, The innovative design enhances maneuverability, reduces energy consumption, and minimizes disturbances in aquatic environments, making it highly suitable for environmental monitoring, marine biology studies, and defense applications.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | The manuscript presents an interesting and innovative approach to underwater robotics using bioinspired design principles. However, minor improvements can enhance clarity and readability. Consider refining some sentences for better grammatical flow and technical precision. Additionally, providing more details on the experimental validation, performance metrics, and potential limitations of the design would strengthen the study. Including a comparison with existing underwater robotic fish models could further highlight the advantages of this approach. |  |

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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)* |  |

**Reviewer details:**

**Ranjit Barua, OmDayal Group of Institutions, India**