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| Journal Name: | [**Journal of Engineering Research and Reports**](https://journaljerr.com/index.php/JERR) |
| Manuscript Number: | **Ms\_JERR\_139314** |
| Title of the Manuscript: | **Research Status and Trend of Decoupling Algorithms for Multi-dimensional Force Sensors** |
| 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** (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 paper provides a valuable review of advancements in decoupling algorithms for multi-dimensional force sensors, focusing on their critical role in high-end equipment systems. It highlights the challenges and limitations of traditional methods and explores emerging technologies like deep learning, piezoelectric materials, and digital twinning to improve decoupling accuracy and real-time performance. The integration of these innovations holds great promise for enhancing sensor reliability, adaptability, and cost-efficiency, especially in extreme environments. By addressing key issues such as computational complexity and model robustness, the paper offers a forward-thinking perspective on overcoming current obstacles. Overall, it makes a significant contribution tothe field, with implications for high-precision applications in robotics, aerospace, and medical technology. |  |
| **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 |  |
| **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 |  |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s Feedback** (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:**

**Mohd Uvais, Integral University, India**