

Review of: "Simulation of Control System for a Half-Car Suspension System for Passenger Vehicle Application by Designing an LQR Controller"

Rajeev Kumar¹

¹ Jamia Millia Islamia University

Potential competing interests: No potential competing interests to declare.

The manuscript in its current form is far away from the journal standards and required to be drastically improved to match the Journal Standards.

1. The literature is highly inadequate. Kindly add more text regarding the most recent advancements in the domain.
2. Incorporate a robust tabular comparison of the proposed Simulation of Control System for a Half-Car Suspension System for Passenger Vehicle Application by Designing an LQR Controller with other controllers/Control strategies (on relevant parameters of current interest) recently published in high-impact journals (not older than 2017) in the domain.
3. Based on the tabular comparison, please mention (point-wise in bullets) the previous drawback/research gaps that motivated you to pursue this study.
4. Then Highlight your contribution (Point-wise) to addressing the research gap.
5. Incorporate the complete organization of the article at the end of the introduction section; i.e., how has the manuscript been organized?
6. Paper Organization is also required to be improved.
7. The manuscript in its current form is mostly written with a theoretical approach.
8. The approach/methodology is not clear and hardly connected to the work. The Role of LQR is not clearly defined.
9. The Result section seems very poor from the journal perspective; Kindly Strengthen the result section by incorporating some more test cases of interest supported by relevant graphics and followed by numeric analysis in support of the test cases. In its current form, this doesn't justify the work properly.
10. The approach or framework is highly bookish and Theoretical, while scientific contributions are trivial.