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

Li Shuoyu[1]

1 South China University of Technology

Potential competing interests: No potential competing interests to declare.

This paper provides a detailed description of the proposed mathematical model and control method, and validates their performance through simulation results. By adopting an active suspension system and an LQR controller, this method exhibits better performance in improving vehicle handling and ride comfort compared to traditional passive suspension techniques. The use of multiple road inputs in the simulation tests further validates the effectiveness of this method.

Regarding your question about including experimental results in addition to the simulated results to fully demonstrate the superiority of the proposed technique, it is certainly a valuable suggestion. Including experimental data and comparing them with the simulated results would provide more comprehensive evidence of the advanced nature of the proposed technique.