Review of: "Optimizing Energy Efficiency for Connected and Autonomous Electric Vehicles in the Context of Vehicle-Traffic Interaction"

Jian Yang[1]

1 University of Science and Technology Beijing

Potential competing interests: No potential competing interests to declare.

1. The entire piece requires revision in terms of content organization and logical coherence. Delete redundant sections in your article and focus on conveying the core content more effectively.

2. The author primarily focuses on describing connected autonomous vehicles in the abstract and the first half of the article, but mentions commercial autonomous electric vehicles in the latter half and the conclusion. The model of the study should be harmonized throughout the text. Additionally, mention of relevant parameters of the power system should be included.

3. The second chapter of the article is titled Dynamics and Powertrain Configuration, but it covers reference speed control modeling issues. It does not deal with dynamics related issues.

4. The author should graphically describe the proposed optimization strategy through images.

5. In Chapter 5, the images do not make it obvious that the torque has been significantly reduced. The comparison variable is not stated by the authors. In addition, the peak torque does not equate to an improvement in the efficiency of the powertrain as proposed by the authors. The optimization results should be quantified and clearly state how much the study variables have been reduced.

6. The real traffic scenarios in Chapter 5 are not described in detail. Provide detailed information on the sources and composition of your datasets. Clearly explain which data is obtained through simulation, which data is actually collected, and clarify the testing scenario and the data resources of the test object.

7. The author of the article mentions connected self-driving cars, however, does not describe connected and self-driving in detail.