Review of: "Blockchain EV Payment Systems: A Systematic Literature Review in Retail Energy Trading"

Mohanad Ali[1]

1 University of Technology - Iraq

Potential competing interests: No potential competing interests to declare.

The article "Blockchain EV Payment Systems: A Systematic Literature Review in Retail Energy Trading" offers a thorough exploration of blockchain technology's integration into the electric vehicle industry. The authors, affiliated with Toronto Metropolitan University, present a well-structured study that highlights key themes such as blockchain features, smart contracts, and EV charging systems based on a systematic literature review.

The introduction effectively sets the stage, emphasizing the security and anonymity advantages of blockchain technology in EV transactions. It aptly positions the relevance of blockchain in the growing EV charging market, addressing the need for secure and efficient payment systems.

The methodology section is robust, outlining the systematic literature review process and detailing the criteria for inclusion and exclusion. The use of artificial intelligence software for relevance validation, coupled with the selection of high-quality databases, enhances the study's credibility and replicability.

The results and discussion section delves into the identified themes and sub-themes, providing a clear overview of the research landscape. The inclusion of average citations for each primary theme adds a quantitative dimension to the impact and relevance of the findings.

The discussion successfully ties the themes to real-world implications in the EV charging industry. Privacy and security concerns are thoughtfully addressed, acknowledging the need for a balance between accountability and protection of consumer information. The article effectively highlights the challenges related to transparency in transactional information and the implications for anonymity and privacy protection.

The section on future research directions is concise and well-supported, suggesting a focus on proving the concept of privacy and security in BT systems for retail EV charging. The provided table summarizing research deficits based on the included papers adds a practical dimension to guide future studies.

Overall, the article contributes valuable insights into the intersection of blockchain technology and electric vehicle payments. It effectively combines a systematic literature review with thoughtful analysis, offering a strong foundation for future research in this evolving field.