GreenIT Article Review Report on "How realistic are claims about the benefits of using digital technologies for GHG emissions mitigation?"

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TITCHEU YAMDJEU Pierre Wilfried
University of Luxembourg
Email: pierre.titcheu.001@student.uni.lu

(± 5 pages)

Abstract

This report provides a critical review of the paper "How realistic are claims about the benefits of using digital technologies for GHG emissions mitigation?" by Aina Rasoldier et al. The paper evaluates the claims about digital solutions, particularly carpooling platforms, in reducing greenhouse gas (GHG) emissions, proposing guidelines for more realistic assessments.

1. Introduction ($\pm 0,5p$)

The reviewed paper by Aina Rasoldier et al. explores the potential of digital technologies, particularly carpooling platforms, in mitigating greenhouse gas (GHG) emissions. Set against the backdrop of increasing digitalization and its environmental implications, the paper critically examines the prevailing assumptions about the efficacy of digital solutions in GHG reduction. The importance of this research lies in its relevance to GreenIT, a domain that emphasizes the role of technology in addressing environmental challenges. The paper aligns with the GreenIT perspective by scrutinizing the real-world impacts of digital technologies on the environment, underscoring the need for comprehensive evaluations beyond mere technological advancements.

2. Research problem addressed ($\pm 0,5p$)

The paper addresses the research problem of evaluating the actual impact of digital technologies on GHG emissions. It questions the prevailing optimistic claims regarding the efficacy of digital solutions, specifically carpooling platforms, in environmental conservation. The research objectives include establishing a framework for a more realistic and comprehensive assessment of digital solutions in GHG mitigation. The paper hypothesizes that current evaluations of digital technologies for GHG reduction are often overestimated, lacking in critical analysis of life-cycle impacts, structural impacts, and rebound effects. It aims to substantiate this hypothesis by applying its proposed evaluation framework to the case of carpooling platforms.

3. Literature review ($\pm 1p$)

In this section, the student presents the scope of the references given in the publication with respect to the concepts introduced during the lecture.

4. Scientific contributions w.r.t. GreenIT and IT for Green ($\pm 2p$)

In this section, the scientific contributions of the paper should be presented USING THE CONCEPTS OF THE LECTURE.

5. Critical Analysis ($\pm 1p$)

Critical analysis of the publication in terms of the CONCEPTS OF THE LECTURE, covering paper's contributions, presented related work, limitations and future work.

Appendix ($\pm 2p$)

All images and additional material go here. DO NOT include any figures, or tables, elsewhere than here in the appendix.

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