
Digital transformation as an opportunity for life cycle assessment

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Résumé

Life Cycle Assessment (LCA) is a well-known methodology for eco-designing product and services. However, its use is limited by difficulties such as availability of high-quality data, involvement of the whole stakeholders of the lifecycle, or the cost of LCA licence. At the same time digital transformation change the way software implying communities can communicate and share. In this framework and mainly based on literature review, this paper seeks to analyse the potential link between digitalization and life cycle assessment development. The goal is to consider the evolution in industries regarding the uses of digital tools and elaborate bridges with environmental analysis. Thus, three specific areas will be bound together: LCA software, ecodesign process, and digital use in order to formulate assumptions and proposals on LCA software evolution including new digital uses.

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