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Sustainable Lean & Green 4.0 production: a bibliometric analysis

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Abstract

As a consequence of the effects of climate change that all countries around the world are currently experiencing, which put at risk the inventory of natural resources for future generations, has made mankind, especially industrialists, think about the innovation that must necessarily be made in the production process. This has led the scientific community to explore how Industry 4.0, or the fourth industrial revolution, can contribute to Lean and Green clean production practices, generating an innovative strategy that leads companies down the path of business sustainability. The objective of this paper was to explore by conducting a bibliometric analysis on the research trends that arise around Industry 4.0 (4IR); Lean and Green (4IRE) and Business Sustainability (BS). For this purpose, scientific software and the prisma method were used to analyze 68 articles from the Scopus(Sco) and Web of science (WoS) databases. The findings support the evolution that is directing the literature towards the contribution that this set of technologies can bring to Lean and Green to improve the triple bottom line. © 2024 Latin American and Caribbean Consortium of Engineering Institutions. All rights reserved.

Author keywords

Bibliometric analysis; fourth industrial revolution; Industry 4.0; Lean and Green; Project Management

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Abstract

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