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Sustainable educational supply chain performance measurement through DEA and Differential Evolution: a case on Indian HEI

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Highlights

- The present research focuses on service based Supply Chain Management concept.
- This study correlates the concept of Supply Chain Management with educational environment for getting the educational Supply chain efficiency with considering environment aspect (GHG emission).
- In this paper, we proposed a solution methodology for the Educational Supply Chain Management (ESCM), where ESCM problem have Data envelopment analysis (DEA) based mathematical model.
- In this study a metaheuristic approach Differential Evolution (DE) and a nonparametric method of operations research Data envelopment analysis (DEA) is used for measuring the sustainable performance of an educational supply chain for an Indian higher educational institute i.e. IIT Roorkee.
- The detailed computational analysis and comparative study, validates the application of the current approach in the real case on IIT Roorkee for sustainable educational supply chain management.

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