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# Supply Chain Management Using Bee Swarm Optimisation to Improve the Logistics in E- Commerce Era

Publisher: IEEE

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### Abstract



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##### Abstract:

The traditional supply chain management and logistics aims at delivering the shipments to user end without delay. The research provides directions for the supply chain management to improve the chain of logistics for the ecommerce sites using nature inspired bee swarm optimization. The utilization of the nature inspired model improves the decision-making ability of the supply chain logistics using various input parameters. The simulation is tested with the development of supply and track model in python tool that uses bee swarm intelligence to track the logistics chain and thereby mitigating the delay in delivering the shipments to the user end. The results show that the proposed intelligence model achieves a higher tracking efficiency than the existing SOTA.

Published in: 2023 International Conference on Disruptive Technologies (ICDT)

Date of Conference: 11-12 May 2023

DOI: 10.1109/ICDT57929.2023.10150921

Date Added to IEEE Xplore: 19 June 2023

Publisher: IEEE

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Conference Location: Greater Noida, India

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**I. Introduction**

E-commerce and the practice of making transactions online have witnessed a stratospheric growth in popularity over the past few years. E-commerce is a modern business model that serves the needs of corporations, merchants, and customers to cut costs while boosting the quality of goods and services and increasing the speed of service delivery [1]. When people talk about e-commerce, they are referring to this modern business model. Using the Internet to complete one shopping errands has a multitude of advantages that one can take advantage of, particularly when compared to more conventional shopping methods. Customers could reduce the amount of time they spend going to different stores as well as the amount of money they spend on gas if they do their shopping online [2].

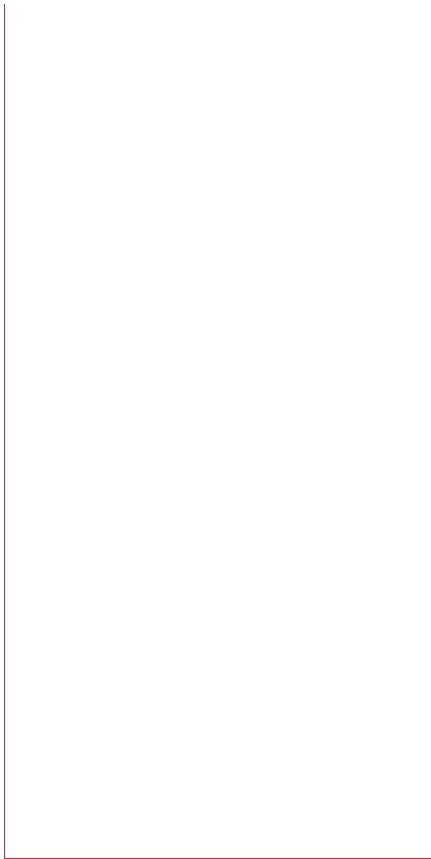
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