Integrating Human Factors into Green Logistics

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Abstract

Due to growing awareness of environmental protection in the world, a green trend to conserve the Earth’s resources and protect the environment exerted pressure on companies to change their management ways. As a result, the issues of environmental pollution must be addressed with logistics system, and it has become an approach to enhance environmental performance. Human issues are an important part of logistics system, yet most companies do not pay sufficient attention to them. A key challenge in green logistics system research is to improve the awareness of engineers about the impact that human factors have on their designs. It is particularly desirable to improve this awareness early on the design process, as many factors can be easily and inexpensively modified at this stage. This paper provides a theoretical framework about Human Factors (HF) that influence the driver’s performance. As the result, this framework provides the basis for a modeling tool that facilitates the assessment of key human factors early in the process of designing a transportation network for cargo services system. Companies could take the advantages of using a green transportation network to help in carbon emissions reduction, cost reduction and to be environmental friendly.

Keywords
Driver's Performance, Carbon emission, Green logistics system, Human Factors.

Biography

Lana M. Shahbari is a Master student in Engineering Management in Faculty of Graduate Studies at An-Najah National University, West Bank, Palestine. She earned B.S. in Civil Engineering from An-Najah National University. Currently, Lana is doing research project with Dr. Mohammad Othman. Her research interests include Ergonomics, modelling, optimization, and scheduling. She is a member of Palestine Engineers Association.

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