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## Patent Search

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#### Abstract:

A SYSTEMATIC APPROACH TO ANALYZING THE IMPACT OF THE APPLICATION OF MACHINE LEARNING IN PREDICTING LOGISTICS PERFORMANCE A method for the development of a platform for managing engineering, manufacturing, supply chains, and logistics operations that can configure key elements of product development, production, and logistics operations and dynamically control key elements of supply chains and logistics to maximize performance. A production line digital twin system builds a machine interaction module for the production line twin system by compiling a communication and motion control program based on the Unity3D physical engine, creating a digital twin production line through an industrial information model module. By entering information about the container using the handheld device at the time of communicating that information to the user application as well as by communicating the identification of the seal device from the handheld device to the user application.

#### Complete Specification

Description: A SYSTEMATIC APPROACH TO ANALYZING THE IMPACT OF THE APPLICATION OF MACHINE LEARNING IN PREDICTING LOGISTICS PERFORMANCE

#### Technical Field

[0001] The embodiments herein generally relate to a method for a systematic approach to analyzing the impact of the application of machine learning in predicting logistics performance.

#### Description of the Related Art

[0002] Market globalization has presented new difficulties for businesses operating internationally. Today's manufacturing, supply, and distribution processes take place across numerous dispersed sites and markets, span several nations, each with its own set of regulatory requirements, political structures, and cultural norms, and involve a huge number of raw material and component suppliers and clients who together make up the supply chain. The goal of the digital twin is to create a digital representation of a physical object, use data to simulate that object's behavior in the real world, and add or expand that object's capabilities through virtual-real time feedback, data fusion analysis, decision iteration optimization, and other techniques. To provide efficient near-real-time, end-to-end monitoring and tracking of the location and status of secured shipping containers, the Solution integrates advanced radio and data-networking technologies with container sealing technologies. Numerous applications, including Advanced Driver Assistance Systems (ADAS), industrial automation, robotics, and others, can benefit from collision avoidance. Conventional collision avoidance systems are well recognized to lessen the severity or frequency of crashes or to offer alerts of impending collisions.

[0003] The use of radically diverse systems by suppliers and customers, as well as the requirement to give suppliers and customers visibility into supply chain operations.

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