

SIMULATION MODELING IN OPERATIONS MANAGEMENT:

A Sampling of Applications

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Abstract

Simulation modeling has become a promising technology for a variety of operations management applications. The modern software has made it easy for managers to initiate simulation projects to address various operational problems. The objective of this presentation is to review the latest applications of simulation projects addressing operations management issues.

Introduction

Computer-assisted simulation modeling has become more common as a method of inquiry for operations management and the service industry since the 1990's. Many technology driven managers now rely on extensive use of simulation to test new ideas and options before actual implementation of their ideas. Instead of building extensive mathematical models by experts, the readily available simulation software has made it possible to model and analyze the operation of a real system by managers who are not well versed in programming languages. Simulation allows the manager to both quantify and observe the system's behavior. Whether the system is a production line, a distribution network or a communications system, simulation can be used to study and compare alternative designs or troubleshoot existing operations. With simulation models, the manager can explicitly visualize how an existing operation might perform under varied inputs, and how a new or proposed operation might behave under same or different inputs [2,13]. The ability to easily construct and execute models and to generate statistics and animations about results has been the main attractions of simulation. The windows based simulation software such as ARENA, have made simulation modeling not only affordable but relatively easy for managers to initiate simulation studies of a variety of situations including operations and processes, feasibility studies, business processes, human resource deployment, call center staffing, capacity planning and others.

Simulation Modeling In Operations Management

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