

# Introduction To Discrete Event Simulation And Agent Based Modeling Voting Systems Health Care Military And Manufacturing

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## Discrete-event simulation - Wikipedia

an overview of the three major discrete-event simulation paradigms. Several world views have been developed for DES programming, as seen in the next few sections. 2.1 The Activity-Oriented Paradigm Let us think of simulating a queuing system. Jobs arrive at random times, and the job server takes a random time for each service.

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## Discrete Event Simulation - an overview | ScienceDirect Topics

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complex system as an ordered sequence of well-defined events. Each event occurs at a particular instant in time and marks a change of state in the system.

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■ Banks, J., and J.S. Carson, Discrete Event System Simulation, Prentice-Hall, Englewood Cliffs, NJ, 1984. zbMATH Google Scholar

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Introduction to Discrete Event Simulation and Agent-based Modeling: Voting Systems, Health Care, Military, and Manufacturing by Theodore T. Allen

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A discrete-event simulation (DES) models the operation of a system as a (discrete) sequence of events in time. Each event occurs at a particular instant in time and marks a change of state in the system. Between consecutive events, no change in the system is assumed to occur; thus the simulation time can directly jump to the occurrence time of the next event, which is called next-event time progression.

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## **Introduction to Discrete Event Simulation**

Discrete event simulation focuses on the processes in a system at a medium level of abstraction. Typically, specific physical details, such as car geometry or train acceleration, are not represented. Discrete event simulation modeling is widely used in the manufacturing, logistics, and healthcare fields.

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