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a discrete event simulation des models the operation of a system as a sequence of events in time each event occurs at a particular instant in time and marks a change of state in the system discrete event simulation or des is intended to simulate systems where events occur at specific separable instances in time des contrasts with a continuous simulation where events are tracked continuously in this chapter we discuss discrete event simulation des which is a specific technique for modelling stochastic dynamic and discretely evolving systems as opposed to continuous simulation which typically uses smoothly evolving equational models des is characterized by sudden state changes at precise points of simulated time leading edge simulation jaamsim is a free open source discrete event simulation software which includes a drag and drop user interface interactive 3d graphics input and output processing model development tools and editors download free upgrade to pro available for windows macos 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describing a dynamic system simulate event driven processes such as mission plans with autonomous agents or the stages of a manufacturing process customize queues routing algorithms processing delays and prioritization schemes analyze and optimize end to end latencies throughput packet loss and other performance characteristics of communication networks event based modeling is a fundamental method of representing our knowledge about a discrete event system in which the dynamics of the system are represented by an event graph this chapter is about the creative ideas for modeling and simulation of discrete event systems using the concept of event discrete event simulation consists of a collection of techniques that when applied to a discrete event dynamical system generates sequences called sample paths that characterize its behavior discrete event simulation des is a stochastic modeling approach widely used to address dynamic and complex systems such as healthcare in this review academic databases were systematically searched to identify 231 papers focused on des modeling in healthcare and of course we have already got numerous ever growing software that make it possible to develop a discrete event simulation des model by the means of drag and drop effortlessly simevents provides a discrete event simulation engine and component library for analyzing event driven system models and optimizing performance characteristics such as latency throughput and packet loss what is discrete event simulation des example a single server system advancement of simulation time components and organization of discrete event simulation model design of event list example a single server system sample design for event scheduling sample design for arrival and departure e the stages of a simulation project system an alternative approach is provided by structuring the problem around the events that can happen this technique discrete event simulation des was developed in operations research to model systems where entities compete for limited resources forming queues as needed 3 a discrete event simulation software with a drag and drop interface for modeling simulations in 3d combines system dynamics with aspects of discrete event simulation embedded in a monte carlo framework a discrete event simulation language different implementations are available through vendors noting that the shortage of housing available through the homelessness response system can be modeled as a queue we propose a discrete event simulation to model the long term flow of people through the homelessness response system for this purpose we formulate the three phase approach that was proposed as a methodology of discrete event simulation using this methodology analysts model static interactions between entities in the target system and then make a program that shows dynamic aspects of the system event modeling is a visual analysis technique that focusses heavily on identifying meaningful 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