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Research Proposal

Topic: Probability and Queueing Theory

The study of queues deals with quantifying the phenomenon of waiting in lines using representative measures of performance such as average queue length, average waiting time in queue and average facility utilisation.

In Queueing Theory there are two models one is Markovian Queues another one is Non-Markovian Queues.

A Queueing Models in which the arrivals follows poisson (Markovian) and service follows Exponential (Markovian) then it is called a Markovian Models, it has the special types (M/M/1):(∞/FIFO), (M/M/c):(∞/FIFO), (M/M/1):(K/FIFO) and (M/M/c):(K/FIFO).

A Queueing Models in which the arrival follows poisson (Markovian) and service follows General distribution (Non-Markovian) then it is called Non-Markovian Models, it has the special types (M/G/1), (M/D/1) and (M/E$_k$/1)

In this study, I do like my Research.