



Briefing My Course Projects

DR. ANUSUYA GHOSH

Discrete Event System Simulation Project on General OPD Problem

To study behaviors of patients coming in an OPD of the institute hospital

*To formulate a **simulation model** of patients coming in the OPD waiting area*

To design improving the waiting time of patients

*Implemented in **Arena***

-@IITBOMBAY, INDIA

Markov Decision Process Project on Optimality of (s,S)-Policy

In a continuous review stochastic inventory model, (s, S)-policy is optimal if demand is a mixture of

*a Diffusion process & a Compound Poisson process
a Constant demand & a Compound Poisson process*

Model is Dynamic Programming

*The **Bellman Equation** reduces to a set of Quasi-Variational Inequalities.*

*QVI leads to the existence of **Optimality***

-@IITBOMBAY, INDIA

Convex Analysis Project on Semi-infinite Linear Programming

To identify a class of SILP with no duality gap, develop relationship between the objective function & the constraints

Extended results to the case when an uncountable number of constraints are present by reducing the case to a countable case

-@IITBOMBAY, INDIA

Visual Cryptography for Black & White Images

Analyze the construction of k out of n visual cryptography schemes such that k shares reveal the image, but any $k-1$ shares will not give reveal

Based on parameters such as contrast & pixel, we propose $(2,n)$ -schemes using Hadamard matrices & block designs.

-@IITKHARAGPUR, INDIA

More Details? More Questions? References?

I am

anusuyaghosh.phd@gmail.com

**INTERESTED IN PROFESSIONALS WHO ARE NOT AFRAID TO
EXPERIENCE OPERATIONS RESEARCH**