Inventory Management in Humanitarian Operations: Impact of Amount, Schedule, and Uncertainty in Funding

Jay Swaminathan UNC, Chapel Hill

Abstract

The talk focuses on the simultaneous resource allocation, lot-sizing and scheduling in a multimachine, deterministic ELSP environment. The objective is to minimize the long-run average production, setup, inventory, and shortage penalty costs. We develop a concave minimization model of the problem, generate heuristic solutions, lower bounding methods and present computational results.

Speaker Profile:

http://www.kenan-flagler.unc.edu/faculty/directory/operations-technology-and-innovationmanagement-otim/jayashankar-swaminathan