蔣俊岳 (Chun-Yueh Chiang)
虎尾科技大學通識教育中心

Title:
A single-machine scheduling problems with deteriorating jobs

Abstract:
A scheduling problem is very important in a manufacturing system. In many real life applications, jobs deteriorate at a certain rate while waiting to be processed. In this talk, we introduce a new deterioration model where the actual processing time of a job depends not only on the starting times of the job but also on its scheduled position. Furthermore, we show that the optimal schedules for the problems are V-shaped with respect to normal job processing times and introduce an efficient heuristic algorithm.