

**A Problem Reduction Technique for Single
Machine Sequencing
With Quadratic Penalty Cost**

Tak Chen Lee

National University of Malaysia (UKM)

Malaysia

Abstract

A problem reduction technique is developed for sequencing jobs on a single machine to minimize a quadratic penalty cost function. This technique is useful for reducing the size of the problem before searching for an optimal solution. Empirical results indicate that the technique is very effective for a large sample of problems when it is applicable.

Keywords: Sequencing Jobs, Penalty Cost Function.
