



Department of Mathematics

Operations Research Group Seminar (ORG)

February 10, 2009 (Tuesday)

4:00 – 5:00pm

Room 324, Meng Wah Complex, HKU

A Lagrangian Heuristic for The Single- and Multi-Period Inventory Problems with Quantity Discounts

Professor Guoqing ZHANG
University of Windsor, Canada

Abstract

We consider the single-period constrained inventory problem with supplier quantity discounts, which is formulated as a mixed integer nonlinear programming model. A Lagrangian relaxation approach is presented to solve the problem. Computational results on both small and large-scale test instances indicate that the proposed algorithm is very effective for the problem. An extension to multi-period inventory problems and preliminary computational results are also reported.

All are Welcome

For further information, please contact org@maths.hku.hk or visit
<http://hkumath.hku.hk/~org>