THE UNIVERSITY   **OF HONG KONG**

Department of Mathematics

Operations Research Group Seminar (ORG)

June 10, 2002 (Monday)
2:30 – 3:30pm
517 Meng Wah Complex, HKU

Mini-series on Multiple Objective Programming: Second Talk

Distance Metric Optimisation: Recent Trends and Advances

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Abstract

This seminar details the advances and trends that have taken place in the field of distance metric optimisation in recent years. The level and nature of publications in the area is examined. The trend away from isolation and towards integration with other Operational Research techniques is elaborated upon. The interface between distance metric optimisation and meta-heuristic methods is examined, with a small example combining genetic algorithms and compromise programming given. The use of distance metric optimisation techniques in combination with the Analytical Hierarchy Process (AHP) and Data Envelopment Analysis (DEA) is detailed. The concept of using distance metric models for classification and data analysis is examined. Avenues for future research directions are discussed.

Keywords: Multiple criteria decision making, multiple objective programming, distance metric optimisation, meta-heuristic methods, analytical hierarchy process.

All are welcome

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