

Mixed integer LP formulations in cluster analysis *

KOLOS ÁGOSTON

Corvinus University of Budapest

Cluster analysis appears in many applications in data analysis. Clustering means grouping the data points so that points inside groups (clusters) are more similar to each other than to points in other clusters. Clustering problems are usually NP-hard, in statistical packages approximation algorithms are implemented. In the presentation we will investigate the question of exact solutions. We present multiple LP formulations for partitioning problems, and simulation results to get an idea how big instances can be solved with LP solvers.

*The presentation is part of the speaker's habilitation process.