A Design of A Blending System Based on Structured Modelling

박기진 · 홍유신 · 장수영

포항공과대학 산업공학과

ABSTRACT

A blending system based on the structural modelling is developed. The system covers the whole aspects of blending problem: data preparation, formulation of a linear programming model, model execution and output analysis. The system is also designed to be easily employed by the users without any experience in OR.

The system frees the users from describing the blending problem as an LP model. Instead, the users can formulate the problem without loss of semantic meanings of data. The system generates MPS format file by itself and gives an optimal solution. The system outputs are interpreted easily with the relational databases in the system. Sensitivity analysis can be performed automatically. A prototype is programmed with C and Clipper and implemented in personal computer.