

Development of a Web-based demand forecasting and scheduling system

강민구, 강수길, 이호경¹, 박선원*
한국과학기술원; ¹LG화학 CRD연구소
(sunwon@kaist.ac.kr*)

In this study, a Web based scheduling system with forecasting for PVC plant has been introduced. In this system, demand forecasting, production sequencing and inventory management has been concerned. Seasonal ARIMA model has been used for demand forecasting. Scheduling model with production and inventory has been solved by genetic algorithm and successive quadratic programming method. Finally, some examples have been tested using real plant data.

Acknowledgement

This work was partially supported by the IMT 2000 (project number: 00015993), Center for Ultramicrochemical Process Systems sponsored by KOSEF and BK21