Development of a PC based scheduling system with demand forecasting for PVC plant

강민구, 강수길, 이호경[1], 박선원*

한국과학기술원 생명화학공학과; [1]LG화학 CRD 연구소

(sunwon@kaist.ac.kr*)

In this study, a PC 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.