Orders dispatching game for a multi-facility manufacturing system 陳彥銘,王文良 Information Management Computer Science and Informatics abewang@mi.chu.edu.tw

Abstract

This paper proposes a novel decision algorithm on higher-level work orders dispatching problems under a holistic manufacturing con-guration of multiple facilities. The multi-facility work order dispatching problems have been formulated as a stochastic nonautonomous Lotka - Volterra dierence game. A closed loop control scheme with discrete event dynamical system is proposed based on the setup of 3 4a b Abstract evolutionary game. Our results show the viability and advantage of proposed dispatching scheme.

Keyword: Stochastic nonautonomous Lotka - Volterra dierence game; Discrete event dynamical system