FUZZY CONCEPTS IN THE CONTROL OF PRODUCTION SYSTEMS

M. Stoica and E. Scarlat, Dept. of Economic Cybernetics, Academy of Economic Studies, Bucharest, (Romania)

The effectiveness of the techniques of Systems Theory in analysing physical systems has stimulated a development for using these techniques in analysing the social economic systems or other types of systems. But social economic systems and processes are very complex, to this complexity being added the lack of precision as regards their knowledge. The principle of incompatibility between complexity and precision plays a part within these systems. In this paper the authors wish to demonstrate that the behaviour itself of such kind of systems have a pronounced fuzzy character. Economic policy may be considered as a fuzzy algorithm acting in a fuzzy system. The efficiency of a such reconsideration regarding the economic system is demonstrated with the aid of a production programming algorithm that is scheduled according to fuzzy precepts.