폰트리아긴의 최대원리의 수치적 해법
— 파업기간중 노사관계 모형을 중심으로

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Numerical Solution for the Pontryagin's Maximum Principle Problem

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Abstract

Although the Pontryagin's maximum principle theory is widely applied in control problems, its contribution to the solution procedure have been restricted just to figure out the rough picture of true solutions, probably due to the complexity of the two-point boundary value problems.

This paper discusses the numerical approach to solve the control problems in connection with the two-point boundary value problems. A model of labor-management negotiatuion during a strike has been constructed and solved explicitly by use of DVCPR subroutine introduced in IMSL.

The results have been turned out that the management is better increase wage very slowly during the strike period, while, on the labor side, it is more effective to show the high intensity of demonstration against the company at the outset and gradually decrease it.

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