

Dynamic transport problems of cost type and time type

LIANA LUPȘA, DOREL I. DUCA, IOANA CHIOREAN AND LUCIANA NEAMȚIU

ABSTRACT.

Real problems which arise in Health Economy are mathematically modeled by means of dynamic optimization problems of transport type. The aim of this paper is to study them and to give some methods to solve them.

REFERENCES

- [1] Lupșa, L., Blaga, L.R., Neamțiu, L., *Model of a Dynamic Lexicographic Bi-criteria Transport Problems*, Automation Computers Applied Mathematics, **17** (2008), to appear.
- [2] Neamțiu, L., Chiorean, I., and Lupșa, L., *Model of Multiple Lexicographical Programming Applied in Cervical Cancer Screening*, in Numerical Mathematics and Advances Applications (Kunisch, K., Of, G., Steinbach, O., Eds.), Springer, Heidelberg, 2008, 91-98
- [3] Zukhovitskii, S. I., and Avdeeva, L. I., *Linear and Convex Programming*, Philadelphia: Saunders, 1966

BABEȘ-BOLYAI UNIVERSITY
FACULTY OF MATHEMATICS
AND COMPUTER SCIENCE
STR. M. KOGĂLNICEANU NO 1
400084 CLUJ-NAPOCA, ROMANIA
E-mail address: llupsa@math.ubbcluj.ro
E-mail address: dduca@math.ubbcluj.ro
E-mail address: ioana@math.ubbcluj.ro

ONCOLOGICAL INSTITUTE
"PROF. DR. I. CHIRICUȚĂ" OF CLUJ-NAPOCA
STR. REPUBLICII NR. 34-36
400015 CLUJ-NAPOCA, ROMANIA
E-mail address: luciana@iocn.ro

Received: 02.11.2008; In revised form: 05.05.2009; Accepted: 13.05.2009.

2000 *Mathematics Subject Classification*. 90C08, 90C39, 90C90.

Key words and phrases. *Dynamic transport problems of cost type, dynamic transport problems of time type, medico-economics problems.*

This paper is supported by the scientific grant CEEEX 125/2006, CanScreen, and by the scientific grant PNII 11-003/2007, CRONIS.