

# One special SIP problem arising in parametric convex SIP Programming

O. I. Kostyukova <sup>1</sup>,

T. V. Tchemisova (Foreign) <sup>2</sup>,

2017

<sup>1</sup> Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

<sup>2</sup>, Foreign

**Keywords:** Semi-infinite Programming (SIP), parametric problems, optimality conditions, constraint qualification

**Abstract:** We consider a SIP problem of a special form possessing some special properties. We show how optimal properties of this SIP problem permit to conclude about existence of optimal parameters in a family of parametric NLP problems that arise in study of parametric SIP problems. The results obtained can be used for different applications and in the future work dedicated to parametric SIP.

**Published in:** Statistics, Book of abstracts 15th EUROPT Workshop on Advances in Continuous Optimization. Canada, Montreal, July 12-14, 2017.