

Workshop APPLIED MATHEMATICS: METHODS AND MODELING
CRAIOVA, MAY 7 - 8, 2017

**On the boundary optimal control of a nonlinear problem arising from contact
mechanics**

Niță Constantin

Department of Mathematics, University of Craiova

nita_gyk@yahoo.com

Abstract: A boundary value problem which describes a frictional antiplane contact model is considered. Firstly we discuss its well-posedness. Then, we study the boundary optimal control: we prove the existence of at least one optimal pair and we deliver an optimality condition. (based on a joint work with N. Cîndea, A. Matei and S. Micu)