

Erratum to the paper
*Revisiting the Analysis of Optimal Control Problems
with Several State Constraint*
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J.F. Bonnans, July 24, 2012

The proof of [2, Lemma 5] (about density of radial directions in the critical cone) is wrong, as noticed by my PhD student Xavier Dupuis. The lemma itself holds true; a proof has been given in [1]. The error in the proof is about the costates associated with solutions of problems (97) and (100). It is claimed that these costates are bounded functions of time. This might be true, but does not follow from the functional framework stated in the proof.

References

- [1] J.F. Bonnans, X. Dupuis, and C. de la Vega. First and second order optimality conditions for optimal control problems of state constrained integral equations. Rapport de Recherche 7961, Inria, May 2012.
- [2] J.F. Bonnans and A. Hermant. Revisiting the analysis of optimal control problems with several state constraints. *Control and Cybernetics*, 38(4):1021–1052, 2009.