

# Second-Order Necessary Conditions in Optimal Control Problems with State Constraints

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Institute of Mathematics, Warsaw, 9 October 2018

## Content

- Smooth optimization problem with inequality constraints
- Elements of set-valued analysis
- Statement of the optimal control problem
- Main result
- About the proofs
- References

The talk is based on the results of the paper :

H. FRANKOWSKA AND N. OSMOLOVSKII,

Strong Local Minimizers in Optimal Control Problems with State Constraints:

Second-Order Necessary Conditions, SIAM J. Control Optim. Vol. 56, No. 3 (2018),  
pp.2353-2376