

117. Zvi Artstein and Ido Bright, **Periodic optimization suffices for infinite horizon planar optimal control**. SIAM J. Control and Optimization 48 (2010), 4963-4986.

**Abstract.** Under quite general conditions we show that an infinite horizon optimal control problem with a state variable in the plane has a periodic solution. The latter may employ relaxed controls. We examine the possibility to construct then an ordinary control approximation. An application to singularly perturbed control systems is displayed.

For a copy of this paper send a request to [zvi.artstein@weizmann.ac.il](mailto:zvi.artstein@weizmann.ac.il)