



Webinar

Systems and Control Group - CIDMA

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Departamento de Matemática, Universidade de Aveiro

A Novel Paradigm for Bilevel Sweeping Control Problems

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Abstract

In this talk, we merge two branches of control theory that have never been related: bi-level optimization with sweeping processes. More precisely, we present a time-optimal bilevel control problem with dynamics specified by sweeping processes at the low level. An instance of this range of problems arises in the motion control of a structured crowd in a confined space. We study the well-posedness of the problem and we establish the corresponding necessary optimality conditions.

Online session: <https://videoconf-colibri.zoom.us/j/84855259177>

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