

Contribution of optimal control to decision support in crop irrigation

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Faced with water scarcity, crop irrigation needs to optimize water inputs over a season, to ensure crop production under both water and nitrogen stress. We study several optimal control problems on a reduced crop model, which allow us to characterize policy structures that can be tested on more complex models or in the field.

In particular, we show the role of non-autonomous and non-smooth dynamics in these problems.

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