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Title: Solving optimal growth problem as a dynamical system which is governed by a difference (in)equation

Abstract: In this paper, I aim to apply the approach of weak Pontryagin's principles to a class of discrete time infinite horizon optimal growth problems. The idea of this approach is to transform the optimal growth problem into a dynamical system which is governed by a difference equation or a difference inequation. I establish necessary and sufficient conditions of optimality in terms of weak Pontryagin's principles.
