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Rachel Leander* (rachel.leander@mtsu.edu), **Suzanne Lenhart** and **Vladimir Protopopescu**. *Optimal control of continuous systems with impulse controls.*

Impulse control problems, in which a continuously evolving state is modified by discrete control actions, have applications in epidemiology, medicine, and ecology. In this paper we present a simple method for solving impulse control problems for systems of differential equations. In particular, we show how impulse control problems can be reformulated and solved as discrete optimal control problems. The method is illustrated with two examples. (Received August 07, 2013)