

عنوان مقاله:

Optimal stochastic control in continuous time with Wiener processes: - General results and applications to optimal wildlife management

محل انتشار:

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خلاصه مقاله:

This paper presents a stochastic optimal control approach to wildlife management. The objective value is the present value of hunting and meat, reduced by the present value of the costs of plant damages and traffic accidents caused by the wildlife population. First, general optimal control functions and value functions are derived. Then, numerically specified optimal control functions and value functions of relevance to moose management in Sweden are calculated and presented

کلمات کلیدی:

Stochastic optimal control, Wildlife management, Hamilton-Jacobi-Bellman equation, Partial differential equations, Moose, Optimization

لینک ثابت مقاله در پایگاه سیویلیکا:

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