

عنوان مقاله:

Hydraulic Servo System Control Using Emotional Learning

محل انتشار:

سیزدهمین کنفرانس سالانه مهندسی مکانیک (سال: 1384)

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خلاصه مقاله:

Hydraulic servo systems are used in different applications like active suspension systems. They show such highly nonlinear behavior that traditional control approaches do not achieve good performance in force or position controlling of them. In this paper, we apply an emotional learning controller (ELC) to a hydraulic servo system. Emotional controllers are a new category of intelligent controllers. The main benefits of LC are that it does not need gradient information, it is model free, computationally simple, and it allows designer to choose favorite reward function. We .show that our emotional controller has excellent performance on control of such nonlinear systems

کلمات کلیدی:

Hydraulic Servo Systems-Active Suspension System-Emotional Learning-Position Tracking

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