
Summary: An adaptive neural output feedback control scheme is investigated for a class of stochastic nonlinear systems with unmodeled dynamics and unmeasured states. The unmeasured states are estimated by K-filters, and unmodeled dynamics is dealt with by introducing a novel description based on Lyapunov function. The neural networks weight vector used to approximate the black box function is adjusted by K-filters, and unmodeled dynamics is dealt with by introducing a novel description based on Lyapunov dynamics.

MSC:
93E03 Stochastic systems in control theory (general)
93C40 Adaptive control/observation systems

Full Text: DOI

References: