(sample) stability and stability in mean square are investigated. Based on Lyapunov functional methods and linear matrix inequality techniques, new criteria for exponential robust stability of switched stochastic delay systems with non-linear uncertainties are derived in terms of linear matrix inequalities and average dwell-time conditions. Numerical examples are also given to illustrate the results.

(a) Present Keyphrases

Target: {stochastic systems; non-linear uncertainties; exponential stability; linear matrix inequality; average dwell-time}

CopyRNN: 1. linear matrix inequality, 2. switched stochastic systems, 3. robust stability, 4. exponential stability, 5. average dwell-time

TG-Net: 1. exponential stability, 2. switched stochastic systems, 3. average dwell-time, 4. non-linear uncertainties, 5. linear matrix inequality

Abstract: This article considers the robust **exponential stability** of uncertain switched stochastic systems with time-delay. Both almost sure

Target: {switched systems; time-delay system}
CopyRNN: 1. switched systems, 2. switched delay systems, 3. robust control, 4. uncertain systems, 5. switched stochastic stochastic systems

Title: Exponential stability of switched stochastic delay systems with non-linear uncertainties

(b) Absent Keyphrases

TG-Net: 1. almost sure stability, 2. **switched systems**, 3. **time-delay systems**, 4. mean square stability, 5. uncertain systems