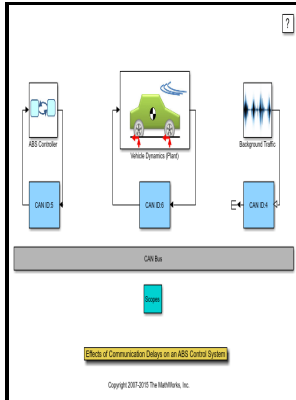


Delay modeling and controller design for networked control systems.

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Notes: Thesis (M.A.Sc.) -- University of Toronto, 2003.

This edition was published in 2003



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Tags: #Design #of #Output #Feedback #Controller #for #Networked #Control #Systems #with #Delay #and #Packet #Dropout

Network time delay analysis for networked control systems

So, in the obtained switched system model, some of the subsystems are allowed to be unstable to reduce the conservatism of the analysis and design results.

CiteSeerX — Networked

برای آشنایی کامل با نحوه Sadat Hosseini: Salahshoor برای بار دوم به بعد: 1396 Sadat Hosseini, Mohammad Ali: Karim Salahshoor برای بار اول: 1396 مرجع نویسی لطفا بخش را ملاحظه نمایید. Theoretical analysis through an example shows the effectiveness of the method.

Guaranteed Cost Controller Design of Networked Control Systems with State Delay

To reduce the communication resources in NCSs, event-triggering scheme is adopted and designed. Abstract It is well known that the stability and performance of a networked control system NCS are strongly affected by the transmission delay, which is usually random in communication networks such as Ethernet.

CiteSeerX — Controller Design and Experimental Validation for Networked Control Systems with Time

Modeling and Optimization in Science and Technologies, vol 13. Using Lyapunov-based results that take into account the possible behavior of the attacker, design conditions for calculating the virtual actuators gains are obtained. For this, time delay is defined as a Markov chain and the model of MRNCS is obtained as a Markovian jump linear system.

CiteSeerX — Controller Design and Experimental Validation for Networked Control Systems with Time

To show the effectiveness of the proposed methods, some numerical results are provided on the quadruple-tank process.

Modelling and control of networked control systems with both network

We present a method that takes advantage of the structure of the problem in order to design the optimal controller.

Robust Reliability Design for Networked Control Systems Based on State Observers

Neither free weighting nor model transformation is employed in the derivation of system stability criteria. The experimental results demonstrate significant performance improvements by the proposed switching control approach.

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