- Short summary:

This paper propose a new algorithm, Low-Cost Acyclic Network

(LCAN), to find the optimum number of regulators for breaking

all cyclic dependencies. Then, we provide a new algorithm, Fixed-

Point Total Flow Analysis (FP-TFA), to compute end-to-end

delay bounds for general topologies, i.e., with and without cyclic

dependencies.

- Points in favor:

The low-cost acyclic network (LCAN), an algorithm that finds the optimum number of regulators for breaking all cyclic dependencies;

A new algorithm, fixed-point total-flow analysis (FP-TFA), to compute small end-to-end delay bounds for general topologies, i.e., with and without cyclic dependencies. This algorithm is based on the most recent work in network calculus and takes advantage of our improved bound for the burstiness increase incurred within packetizers.

- Points against:

1、The real platform experiment mentioned is not detailed enough.

2、ensure real-time performance when the message frame appears to be jittered in the real application scenario after using the regulator.

3、This article is more partial theory, the actual engineering application is not strong