A Control-Theoretic Approach to (Paper) Flow Control

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SIGCOMM ’04 Outrageous Opinions Session

Joint work with:
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Problem

- # submissions
- Year

Line graph showing the number of submissions from 1994 to 2006, with a trend line labeled "Sigcomm".
Problem?

![Graph showing the trend of Sigcomm and Infocom papers from 1994 to 2006.]
SIGCOMM Pipeline

Authors write papers

The PC passes judgment

Unexplored territory

Focus of prior work:
• Early paper discard
• Larger PCs
• Slave labor
• Etc.
Classical Theory

positive feedback

negative feedback

SIGCOMM Black Box
Reality

SIGCOMM Black Box

Acceptance rate

Submit more papers to make up for the falling acceptance rates!
Proposal

Create a real disincentive for pointless paper submission

In addition to accepting a set of papers...

...publish a list of rejected papers

Assumption: authors are not as thick-skinned as...

Multiple QoP classes:
• Rejected, honorably rejected, randomly rejected
Issues

• Disseminating rejection info
  - supplement CiteSeer with RejectsHere

• Fine print in CVs
  - “Inter-planetary BGP with Nanosecond Convergence”
    K. Lakshminarayanan, V. Padmanabhan
    Understandably rejected SIGCOMM 2006

• Risk-free strategies
  - Submission author list: lone student
  - Camera-ready author list: student + advisor #1 + advisor #2