

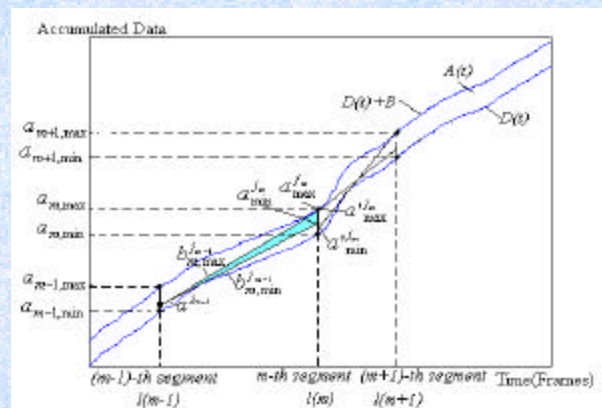
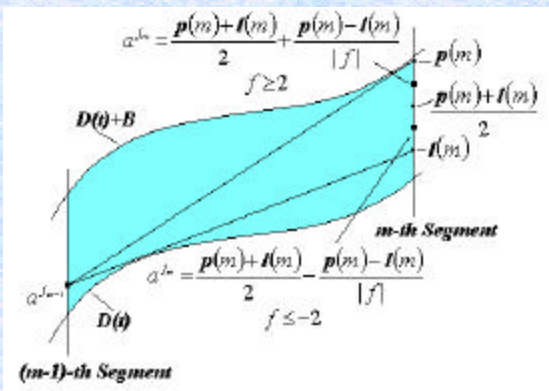


Dynamic Bandwidth Allocation Based on playback Tunnel to Support Video-on-Demand

Area of technology
Multimedia Networking

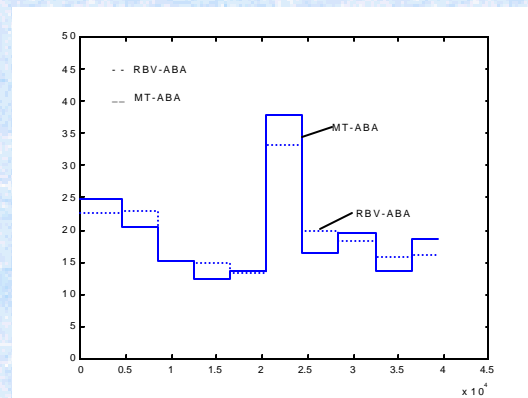
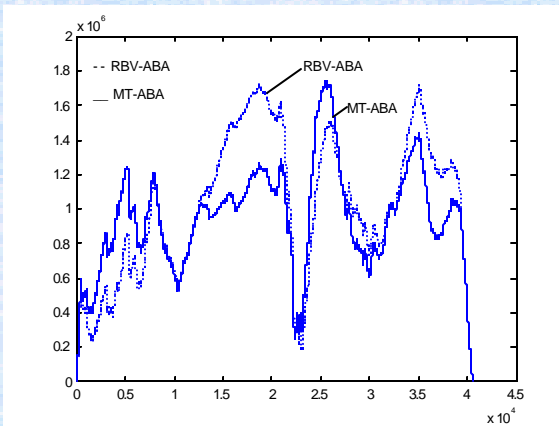
Innovative features:

A new efficient way to transport Video-on-Demand over ATM Networks by allocating bandwidth adaptively.



Bandwidth prediction for dynamic allocation

(MT-ABA) Scheme [MT-ABA: Middle tunnel ABA]



Application areas:

- Dynamic Bandwidth control
- Video-on-Demand
- QoS guarantee

	Mean rate (Cells/Frame)	Peak rate (Cells/Frame)	Traffic Burstiness	Bandwidth variability
a. MT-ABA	19.3417	37.7500	1.9517	0.3729
b. RBV-ABA	19.4183	33.2713	1.7134	0.2911
c. Original video trace	19.0405	349.5417	18.3578	1.5312

Investigators: Assoc. Prof. Zhang LiRen, Phone: 790 4508, Email: elzhang@ntu.edu.sg