

Department	Faculty of Science and Engineering	Name	Nobuyuki Sugimachi
Research Subject	Traffic control in high-speed networks		
Keywords	ATM network, traffic control, ABR service, protocol, throughput		
<p>Introduction or Outline of the research</p> <p>SUMMARY</p> <p>The study of traffic control for effective use of network resources and efficient transmission of data in high-speed networks has been drawn much attention in the recent research. The objective of this study is on traffic control of ATM (Asynchronous Transfer Mode) networks. Especially, CAC (Connection Admission Control) and traffic control of ABR (Available Bit Rate) services are considered.</p> <p>CHARACTERISTICS</p> <p>Recently, a large amount of data such as moving pictures, high definition pictures, etc., can be transmitted with in a very short time with the advancement of the Internet and processing power of computers. However, in case of congestion, the faster the data transmission speed, the larger the probability of data loss. In order to avoid the congestion, traffic control techniques are very important. In this study, issues related to congestion avoidance and minimization of data loss, etc. in ATM networks are considered.</p>			