

#### **44. ADAPTIVE VIDEO STREAMING WITH ONLINE VIEWING**

T.Bakkiya lakshmi, G.Rajeswari

PG Student / CSE, Assistant Professor/CSE, Surya Group of Institution – School of Engg. ,Vikiravandi.

bakkiya12dharma@gmail.com rajilaxman.1980@gmail.com

Adaptive video streaming is a relevant advancement with respect to classic progressive download streaming a-la YouTube. Among the different approaches, the video stream switching technique is getting wide acceptance, being adopted by Microsoft, Apple and by popular video streaming services such as Akamai, Netflix, Hulu, Vudu, and Livestream. In this project, we present a model of the automatic video stream switching employed by one of these leading videostreaming services along with a description of the client-side communication and control protocol. From the control architecture point of view, the automatic adaptation is achieved by means of two interacting control loops having the controllers at the client and the actuators at the server: one loop is the buffer controller, which aims at steering the client playout buffer to a target length by regulating the server sending rate; the other one implements the stream switching controller and aims at selecting the video level.

Keywords—Adaptive video streaming, stream-switching, Modeling, performance evaluation

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