

AdViSE: Adaptive Video Streaming Evaluation Framework for the Automated Testing of Media Players

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ABSTRACT

Today we can observe a plethora of adaptive video streaming services and media players which support interoperable formats like DASH and HLS. Most of the players and their rate adaptation algorithms work as a black box. We have developed a system for easy and rapid testing of media players under various network scenarios. In this paper, we introduce **AdViSE**, the **Adaptive Video Streaming Evaluation** framework for the automated testing of adaptive media players. The presented framework is used for the comparison and testing of media players in the context of adaptive video streaming over HTTP in web/HTML5 environments.

The demonstration showcases a series of experiments with different media players under given context conditions (e.g., network shaping, delivery format). We will also demonstrate the real-time capabilities of the framework and offline analysis including several QoE metrics with respect to a newly introduced bandwidth index.

CCS CONCEPTS

•Networks →Network performance modeling; Network experimentation; Network reliability; •Information systems →Multimedia streaming;

KEYWORDS

Evaluation framework; AdViSE; Adaptive streaming; Media players; MPEG-DASH; Network emulation; Automated Testing; Mininet; Selenium; Quality of Experience; Metrics

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1 INTRODUCTION

Adaptive video streaming over HTTP is becoming more and more the primary technology for video delivery in the open internet. For example, Netflix and YouTube alone account for more than 50% of the traffic [12] thanks to open, interoperable formats such as MPEG-DASH [14] or HLS [11]. In the past, we have witnessed many deployments in web environments implemented using Javascript by utilizing HTML5 and media source extensions (MSE) enabling a plugin free video streaming.

The technology behind adaptive video streaming over HTTP implies media representation switching (e.g., bitrate/resolution) depending on context conditions such as network characteristics and client device properties. An integral part of each player implementation is the usage of an appropriate rate adaptation algorithm which aims to follow dynamically changing context conditions. Thus, we are in a situation with many unknown variables and the problem of choosing the appropriate media player for video streaming and playback arises.

In this demo paper, we introduce **AdViSE**, an **Adaptive Video Streaming Evaluation** framework which enables the automated testing of media players — and, thus, rate adaptation algorithms — under various context conditions (e.g., client devices/platforms, network characteristics/conditions). The main focus of AdViSE is the provisioning of tools for easy and rapid experimentation with media players and algorithms as they appear on the market including updates thereof which become available in relatively short periods.

The rest of this paper is organized as follows. Section 2 describes the underlying scientific problems leading to the development of AdViSE. In Section 3, we present the architecture of the designed system and its components. Section 4 provides a brief description about the demo itself and Section 5 concludes the paper.

2 UNDERLYING SCIENTIFIC PROBLEM

Nowadays, there exists a large number of different players/algorithms (including commercially available ones) and most of them have been implemented in JavaScript. However, no common performance evaluation framework/system

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From Multimedia Communications to the Future Internet Stefan Schulte, Boris Koldehofe, 2024-09-15 This Festschrift is dedicated to Ralf Steinmetz on the occasion of his retirement The honoree is a full professor at the Technical University of Darmstadt in Germany where he leads the Multimedia Communications lab He has supervised over 105 successful PhD students and remains committed to his vision of achieving seamless adaptive multimedia communications He has been widely recognized for his contributions to the field prestigious accolades include an Honorary Doctorate from RWTH Aachen University and a Chair of Excellence at the University Carlos III de Madrid He is also a fellow of several esteemed professional organizations including the IEEE the ACM the GI and the VDE ITG A pioneer in multimedia and networking Ralf Steinmetz's work opened up further research in topics such as distributed systems e learning and serious games The contributions in this volume reflect his huge impact on research technical developments and careers in the areas of multimedia and networking in Part I the chapters discuss past research results and their impact often applying a survey style in Part II researchers present current results and in Part III the chapters give an outlook on future research directions

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