Aalto University

Dissertation press release 13.1.2020

A Journey of Internet Video

Title of the dissertation	Video Streaming Transport: Measurements and Advances
Contents of the dissertation	At the turn of this century, faster Internet speeds and better compression techniques enabled the pervasiveness of video over the Internet. Video streaming is now the largest contributor of traffic in the Internet and is expected to rise even further. This thesis contributes to an evolving Internet, where video traffic has gained an equal if not higher importance to other types of web traffic. The study looks at video streaming from a user perspective to provide network performance indicators beyond bandwidth values, which are meaningful for both Internet providers and subscribers for gauging video experience. Furthermore, it includes work on novel and more optimized techniques for video delivery paving the way for newer Internet protocols in the heavily ossified and somewhat inflexible Internet. As we move towards immersive video and virtual reality, bandwidth requirements for video delivery and user expectations continue to rise and these developments are a need of the hour.
Field of the dissertation	Networking Technology
Doctoral candidate	Saba Ahsan, M.Sc. (TECH)
Time of the defence	21.02.2020 13:00-17:00
Place of the defence	Aalto University School of Electrical Engineering, R037/1018 AS1, Maarintie 8, Espoo
Opponent	Professor Mostafa Ammar, Georgia Institute of Technology, USA
Custos	Professor Jörg Ott, Aalto University School of Electrical Engineering, Department of Communications and Networking
Electronic dissertation	https://aaltodoc.aalto.fi/handle/123456789/53
Doctoral candidate's contact information	Saba Ahsan, Nokia Technologies, saba.ahsan@aalto.fi