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Refined adaptive video quality demands over heterogeneous networks (Conference Paper)

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Abstract   ⌄ View references (13)

User demands of video quality are increasing rapidly. Videos streaming providers have been trying hard to fulfill users' requests of best video qualities over heterogeneous networks. However it is extremely challenging to meet adequate bandwidth which guaranty users' pleasance. With current portable devices, users change dynamically their positions and demands, thus anticipating the distribution methods of bandwidths and channel capacities. Two modules are used to perform the quality adaptation: the First Adaptive Video Quality (FAVQ) and the Refined Adaptive Video Quality (RAVQ). Both modules form the algorithms that match the layers with resources available at the peer. On one hand, to determine the highest potential layer which user can retrieve and play, the FAVQ is used and perform at session start. On the other hand, due to the changes in environmental network, the RAVQ is performed regularly to adjust the layer accordingly. JSVM 9.14 was used for performance evaluation of the developed schemes. This study manage to formulate the problem as bandwidth reduction and still achieve short delay and maintain acceptable video streaming quality base on scalable video coding (SVC). © 2017 IEEE.

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Topic: Video streaming | HTTP | adaptive video

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Author keywords

(FAVQ)   (Quality video streaming)   (RAVQ and Heterogeneous System)

Indexed keywords

Engineering controlled terms:	(Bandwidth) (Heterogeneous networks) (Video streaming)
Engineering uncontrolled terms	(Bandwidth reductions) (FAVQ) (Heterogeneous systems) (Performance evaluations) (Portable device) (Quality adaptation) (Quality videos) (Video quality)
Engineering main heading:	(Scalable video coding)

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