Autonomic Media Streaming for Mobile Communication

Research Type: M.Sc.
Location: İzmir Yüksek Teknoloji Enstitüsü, 35430 Urla, İzmir
Research Theme: Embedded Systems.
Department: Dept. of Computer Engineering.

Context:

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Subject:

Today mobile devices such as laptops, PDAs and handsets involve in high speed IP communication on Wi-Fi, HSDPA and WiMAX. Media Streaming applications on 3G and 4G are becoming more popular [1]. According to industry researchers, the number of mobile VoIP minutes will rise from 15 billion in 2010 to 470.6 billion minutes by 2015. This is 31 times bigger than what we currently have in terms of mVoIP voice minutes. Media streaming is typically carried out with RTP/RTCP protocols. The aim of this project is to add some smart mechanisms relying on RTCP reports, in order to guarantee the certain QoS levels. The system is expected to be autonomic such that various parameters might be adjusted during the communication.

Required background: Candidates must have an engineering diploma in computer or electronics.

References: