Abstract

This paper is mainly concerned with the internal details of a runtime platform for teleconferencing and all the study and research work done in improving the runtime platform so as to not to use it as a stand-alone application but to support reuse of its components. The platform designed has three functionalities. Converts the captured video into .x file format,
Encrypt the data file and transfer it over the network and Create connections dynamically. The main objective of the paper is to facilitate a single application to handle various scenarios. Code and other resource reuse are possible for development of new applications. This concept is also economical as it reduces the number of connections at a point of time. Owing to the runtime creation of the connections, the unwanted connections are not present. The teleconferencing is networked multimedia application which requires real time audio-video streaming and collaboration among the conference participants. Tele-conference application like tele-tutoring involves many scenarios under single application, requiring an application platform to deal with the dynamic changing scenarios. The main objective of this paper is to develop a runtime platform for fast implementation of the multimedia application with conference character and collaborative feature. Dynamic change of the connection structure among the different scenarios is proposed here.

Reference

- LIU Xiao-jun(Chinese People's Armed Police Forces Academy, Hebei Langfang 065000, China);"Design and Realization of High Definition Video Capture Card Based on HD-SDI";Video Engineering:2009-01
Dynamic Video Conferencing with Fully Secured Encryption Algorithms


Index Terms

Computer Science                     Multimedia

Key words

  Tele Conferencing                  Encryption                  Video
  Conferencing
  Capture
  Network Security