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Design and implementation of a teleconferencing system using improved HEVC coding

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The globalization has led to an urgent need for a telecommunication service as it plays an important role nowadays. Therefore, a multimedia system takes an influential role in the comprehensive communication between the regions. Teleconferencing has become an indispensable element in any business system because it offers the opportunity for collaborators to participate in a virtual group while they reside in diverse regions. It also increases productivity, minimizes travel expenses and saves travel time. This research presents a reliable teleconference system that utilizes an improved high-efficiency video codec (HEVC) H.265 technology with congestion control. The improvement is based on CU size decision and entropy coding, which provides an adequate approach to enhance the real-time video/IP technology in terms of improved video quality and increased compression ratio compared to the previous codec (H.264) and original HEVC.

Biography

Shaima' Safaaldin Bahaaldin received BSc and MSc degrees in Computer Engineering from Al-Nahrain University, Baghdad, Iraq, in 2003 and 2006 respectively. She received the PhD degree from Gaziantep University, Turkey in 2016. She is an Instructor and Administrator of Cisco Academy in her country. Her current research interests are image, video, audio processing, with the teleconferencing system, and also the computer networks, Active Directory (ADSI) Interfaces, Website Design, and Server.

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