

Power Aware Video Coding For Extending Battery Life in Portable and Mobile Devices

The research focused on developing Video codec software architectures that are power-adaptive, the specific objective of the project were:

1. To benchmark the shortcomings of existing video codec's in meeting the customers expectation due to limited energy resources of the portable and mobile devices
2. To research on and develop (a proof-of-concept) low power and power-aware video codec for battery operated mobile and portable devices which can yield a longer battery life and is adaptive to the varying battery power level. It could be implement-able on low power DSPs (cores) as generally used in mobile devices.
3. To demonstrate its superiority in meeting the users expectations.

The project envisioned to yield Video codec with power-aware features for multimedia applications with capability of handling real-time videos of sizes like CIF or QVGA and frame rates up to 30 frames/s. And to make a prototype multimedia application (like streaming/playback) on portable/mobile platform with integrated designed video codec.

The project was closed after 03 quarters and couldn't achieve its objectives.