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DI TECNOLOGIA

## TITLE

Robust Scalable Video CoDec

## INVENTORS

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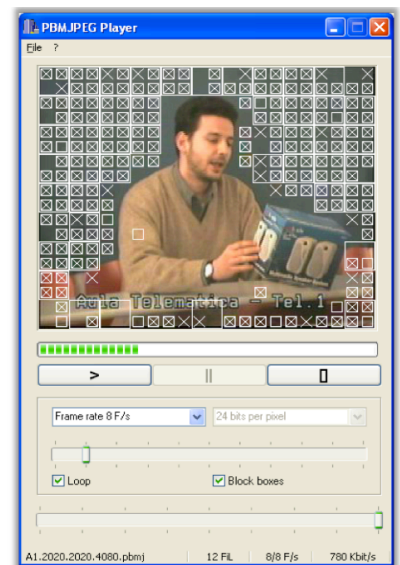
## DESCRIPTION

This invention provides a novel scalable video coder for video streaming over wireless networks consisting in a multi layer scalable source coding, able to meet the multi-user requirements in heterogeneous networks.

The encoder system presents a high degree of scalability able to meet dynamically the requirements of width bandwidth and it has better performance compared to known scalable video coders generating a robust embedded bitstream compared to packet loss.

Beyond the scalability, the proposed algorithm is characterized by the robustness to packet loss.

It is remarkable how, when a non zero packet loss is considered, the proposed method achieves a quality of even 7 dB higher than the MPEG-4 FGS code.



## APPLICATIONS

This method can be considered very useful for the improvement of the “always best connected” (ABC) service , where the access network selection is a key issue. Main applications are in the field of multimedia communications as video-on-demand (VOD), real-time video and Internet live broadcast.

## KEYWORDS

video codec, scalable, pyramidal, robust

## BIBLIOGRAPHIC DATA TO2010A000311

Procedimento di codifica/decodifica di segnali video/immagine con descrizione multipla e relativo apparato di codifica/decodifica

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