

Performances of the estimation and motion compensation for the reconstruction of motion areas in a sequence video Motion JPEG 2000

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Abstract—In a very noisy environment, the transmission of video sequences Motion JPEG 2000 is not entirely reliable since attending packet loss in the codestream the movie Motion JPEG 2000. For a reconstruction of the lost packets, the method of conditional replenishment has been proposed. However, with this method, the effects of blocks appear in motion areas making the quality of the video poor in these areas.

In this paper, we propose the method of estimation and motion compensation for optimal recovery of lost packets in motion areas. Thus, the application implementation in Matlab can see firsthand the disappearance of the effects of blocks in the transmission of video sequence Motion JPEG 2000 in a very noisy environment.

Keyword— Motion JPEG 2000, estimation and motion compensation, motion areas, effects of blocks, conditional replenishment.



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Abdou Khadre DIOP was born the 10th of July 1979 in Pikine, Dakar, Senegal. He received the degree in Telecommunication and Electronics Engineering from the Gaston Berger University of Saint-Louis (Senegal) in 2005. In 2012, he was employed as ATER at the Department of Technology in Information Communication of the Alioune Diop University of Bambey. In 2008, he joined the Laboratory of Biomedical Imaging & Bioinformatics for a joint PhD thesis. His current research areas cover transmission of the video sequence in JPEG 2000.