

CCITT SGXV
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Experts Group for ATM Video Coding

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SOURCE : JAPAN
TITLE : Comparison of leaky prediction and intra slice on channel hopping
Purpose : Information
Ad-hoc group : ATM

1. Introduction

The leaky prediction had been investigated on coding efficiency in Tarrytown meeting, and it was concluded that the noisy background due to leaky prediction should be solved. Another feature of leaky prediction seems to be the good impression after channel hopping, because the rough image can be recognized promptly. In this document, the subjective impressions after channel hopping have been compared between leaky prediction and intra slice.

2. Simulation

The several display ways using leaky prediction and intra slice are simulated and compared subjectively at 4Mb/s with M=1. These are;

- (1) leaky prediction with $n=4$, e.g. leaky factor = $15/16$
- (2) Intra slice No.1:
The still picture (Blue) is displayed until all slices are refreshed (15 frame time) after channel hopping.
- (3) Intra slice No.2
The last picture before channel hopping is displayed until all slices are refreshed (15 frame time) after channel hopping.
- (4) Intra slice No.3
The decoded pictures are displayed from the first picture after channel hopping. In this case, the refreshed slices are displayed directly, but non-refreshed slices are set to blue to hide the errors.

These four cases are demonstrated by D1 tape.

3. Conclusion

The leaky prediction and intra slice are compared on subjective impression of the picture recovery after channel hopping.