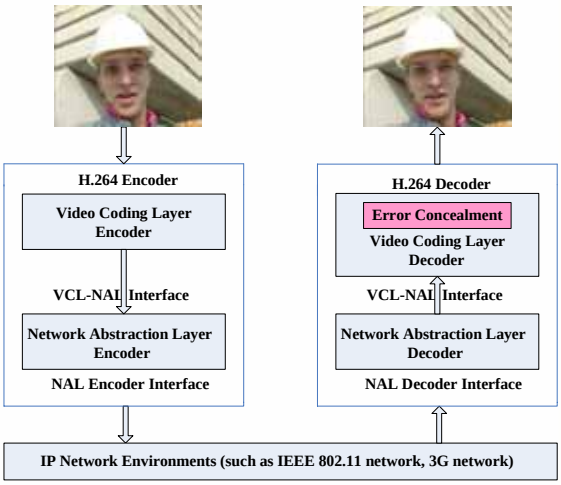
Variable Block Size Motion Vector Retrieval Schemes for H.264 Inter Frame Error Concealment

修士課程修了　王　磊

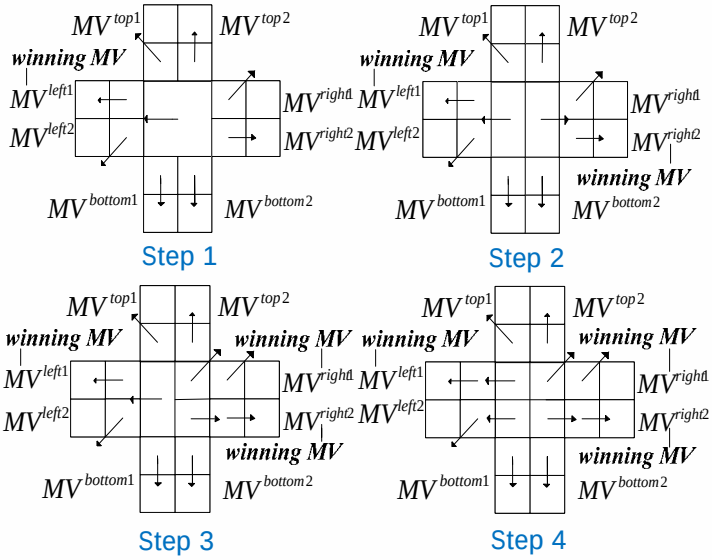
Background

- H.264 adopts many new effective features to achieve higher compression efficiency and it becomes more and more common in video transmission.
- H.264 is more sensitive to transmission errors than other video compression standards.
- Our research is to predict more accurate MV for the corrupted MB and achieve high-quality error concealment performance with less reconstruction artifacts.
- Our research can achieve high-quality video decoding on H.264 video decoder.

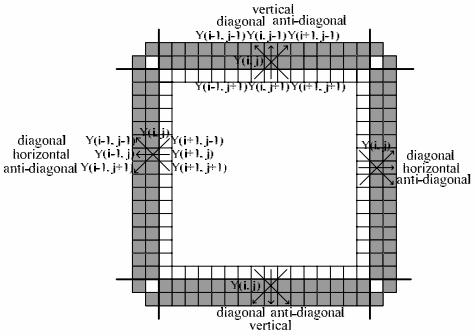


Proposals

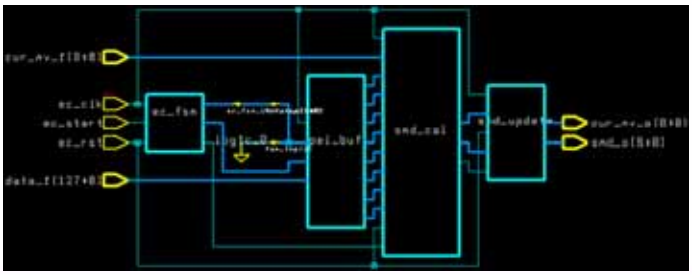
Variable Block Size Error Concealment

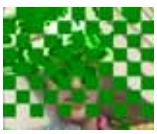


Directional Spatio-temporal Boundary Matching Algorithm

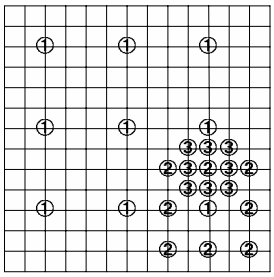


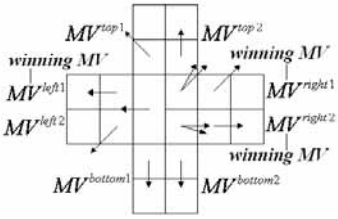
H.264 Inter Frame Error Concealment Engine

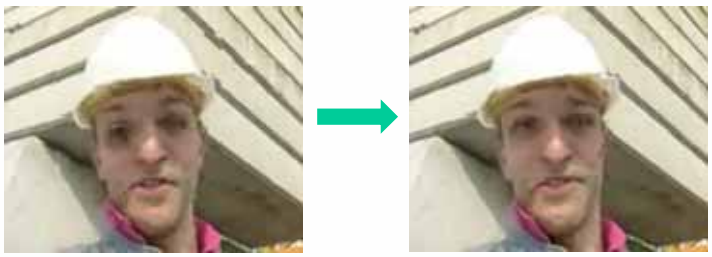




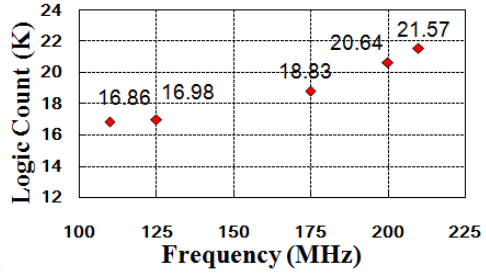
Motion Vector Refinement







H.264　　Our proposed method



早稲田大学 大学院 情報生産システム研究科
システムＬＳＩ分野システムＬＳＩ応用部門　池永研究室