基於空間與時間分析之影像/視訊解析度增強技術

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摘 要

解析度增強在影像/視訊處理是一個基本且重要的技術。本論文提出一個動態解析度增強技術，主要的目的是要從低解析度影像中重建出高解析度影像。從空間與時間域中估算獲得初始高解析度影像後，利用動態反覆逆投射（iterative back-projection, IBP）法則重建高解析度影像，再利用影像融合技術將空間與時間域影像融合。最後利用後處理減少重建影像中方塊效應。根據實驗結果，就PSNR和NQM而言，本文所提方法之重建影像結果比目前現有的三種方法要好。

關鍵詞 : 影像解析度增強;反覆逆投射;半像素影像

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