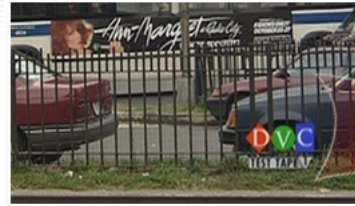


YUV Logo Remover Technology

Efficient removal of static fixed areas from video including logos, dates and time stamps



Primary Applications

- Media broadcasting with removal of unnecessary information like logos and dates
- Home video processing
- Recovery of video areas behind a logo for analysis
- Removing of dates and time stamps from security camera streams for more comfortable review

Key Features

- Automatic real-time processing
- Two modes of operation (one-pass and two-pass, high-quality mode)
- Manual mask editing optional (for two-pass mode)
- Adjustable speed/quality trade-off

Basic Deliverables

- Source code for a reference implementation in C
- C and assembly language source code for an implementation optimized for the PC (if required)
- Algorithm description
- Software description
- Verification instructions



Video with logo or date stamp

YUV Logo Remover Technology

Processed, clear video



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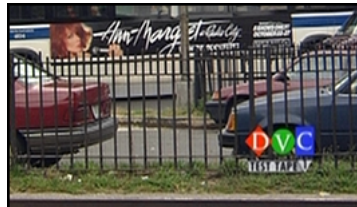
+7 906 744 0865

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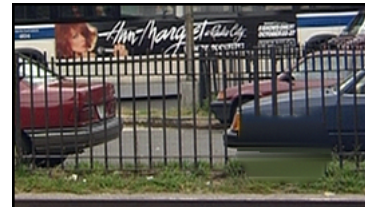
Specification

- Fully automatic detection and removal algorithms
- Controllable speed/quality trade-offs
- Spatial and temporal information used for high-quality background restoration when removing an object (temporal method based on motion vector analysis)
- Processing speed dependent on size of logo and search area (all measurements for an Intel Pentium 4 3.0GHz PC for a non-optimized reference implementation of the algorithm)
 - Large logo (10% of frame size) - up to 50 fps for CIF video (352x288) using one-pass preset
 - Large logo (10% of frame size) - up to 30 fps for CIF video (352x288) using two-pass preset
- Memory usage of approximately 20 bytes per pixel for non-optimized version
- Manual mode for user editing of logo mask

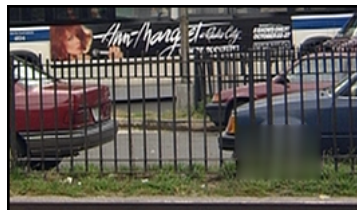
Comparison with Competitors



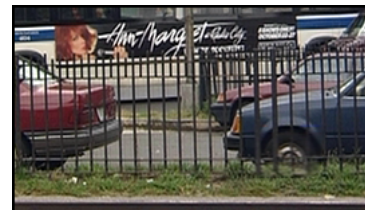
Original



Logoaway



X-Logo



YUV Logo Remover

Our advantages

- YUV Logo Remover provides better restored video quality following logo removal
- YUV Logo Remover finds logo in automatic mode; competitors use manually defined mask