



Video Matching Technology

*Video Processing and
Video Compression Technologies*

www.yuvsoft.com

Technology Target Areas

- Search video fragments in video database “by example”
- Find duplicates in video database
 - Leave only best quality video
 - Database size reduction
- Build effective indexes of large video collections
- Copyright examination

Technology Characteristics

- Robust on deformed video
- Small size of video database description
 - 700 Mb film – 50 Kb description
- Fast searching
 - Logarithmic search time
- Works well with both small half minute fragments and full-length films
- Fully automatic

Video Deformations

Examples



Brightness/Contrast



MSU Smart Brightness



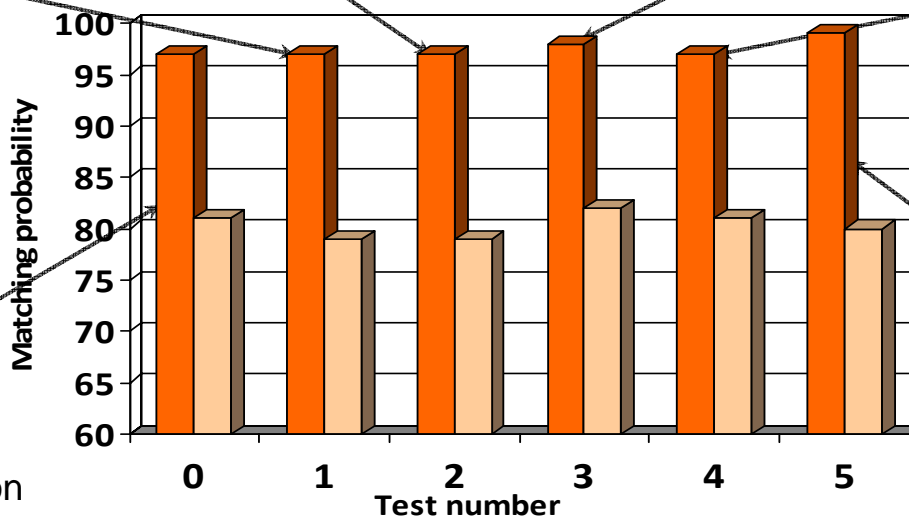
MSU Old Color Restoration



MSU Noise Generator



Original recompression

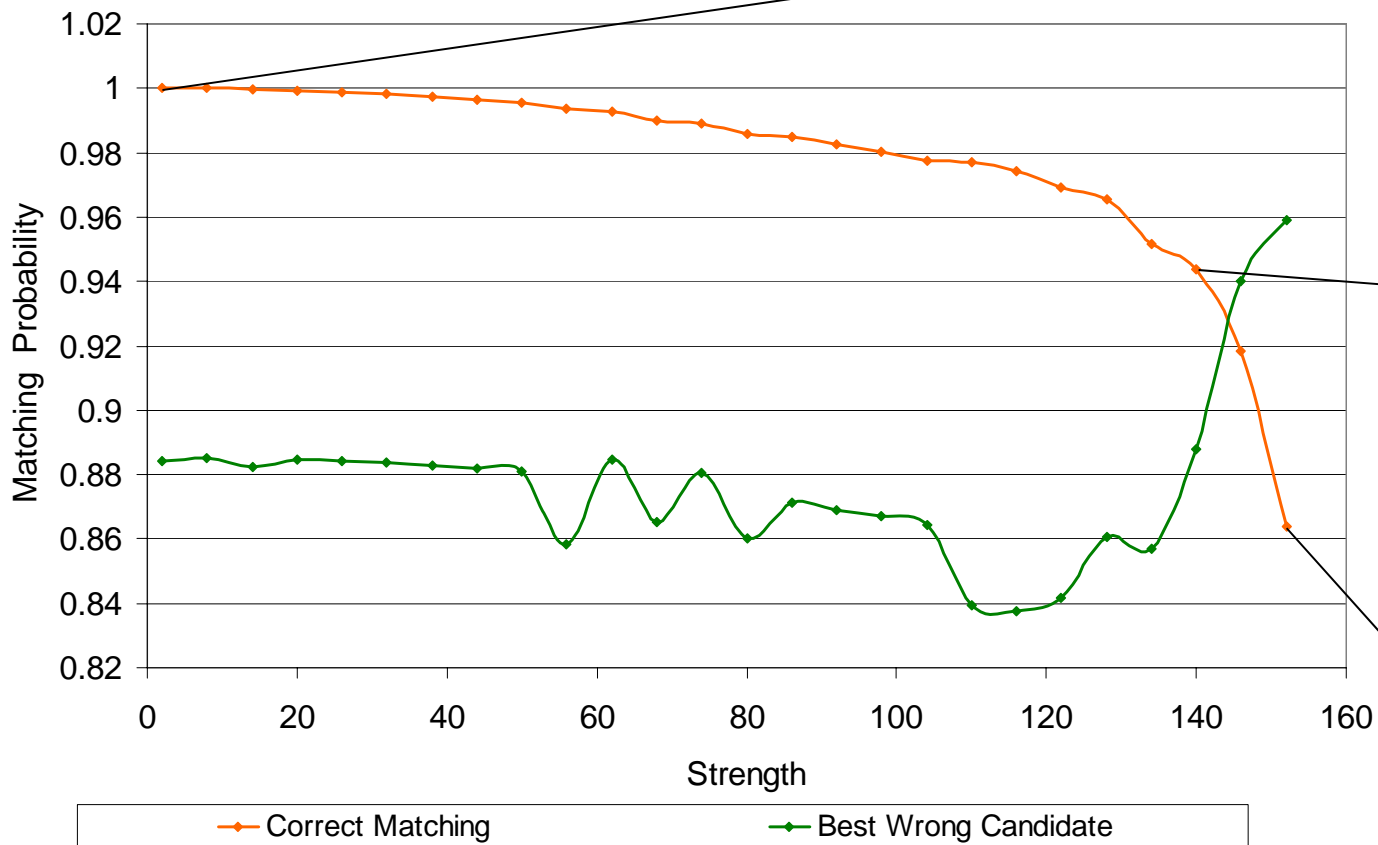


MSU Noise Generator
MSU Smart Sharpen

■ Correct Matching
 ■ Best Wrong Candidate

Video Deformations

Black Borders



Key Features

- Fully automatic
- Supports wide set of video deformations:
 - Brightness shift or equalization
 - Hard noise (different types)
 - Compression artifacts
 - Different resolution
 - PAL/NTSC support
 - Black borders (letter box)
 - etc.
- Compact database representation
- Works without original database films

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