Main Features

1. **15 Objective Metric + 5 Plugins**
   - PSNR several versions
   - Spatial-Temporal SSIM
   - MSAD
   - Delta,
   - MSE
   - SSIM
   - VQM
   - MSU Blurring Metric
   - MSU Brightness Flickering Metric
   - MSU Brightness Independent PSNR
   - MSU Drop Frame Metric
   - MSU Noise Estimation Metric
   - MSU Scene Change Detector
   - MSU Blocking Metric

2. **More Than 30 Supported Formats, Extended Color Depth Support**
   - *.AVI,
   - *.YUV,
   - *.Y4M:
   - YUV,
   - YV12,
   - IYUV,
   - UYVY,
   - Y,
   - YUY2,
   - *.BMP,
   - *.avi,
   - *.yuv,
   - *.y4m:
   - yuv,
   - yv12,
   - iyuv,
   - uyvy,
   - y,
   - yuy2,
   - etc.,

3. **Multi-core Processors Support**
   - MMX, SSE and OpenMP Optimizations

4. **Comparative Analysis**
   - Comparison of 3 files at a time and more with the CLI interface

5. **ROI Support**
   - Metric calculation for ROI (Region of Interest)

6. **GPU Support & 64-bit support**
   - Up to 13 times speedup on CUDA enabled GPU’s and up to 10% speedup with the 64-bit machines making MSU VQMT fastest video comparison tool

7. **GUI & Batch Processing**
   - GUI and command line tools

Visualization Examples

- Allows easily detect where codec/filter fails
- MSU Blurring Metric
- MSU Blocking Metric
- MSU Brightness Independent PSNR

Big thanks to our contributors: