Personal Multimedia Enhancement & Management Robust Video Super-resolution

Higher resolution video from low resolution video

- Combines information from multiple images to recover high-resolution detail
- Cleans up videos by removing camera noise and compression artifacts
- Benefits consumer electronics applications, i.e., enhancing low resolution videos
- Benefits professional video applications such as up-sampling to new video standards, video surveillance, etc.
- Computationally intensive: requires tera-scale computing performance for real-time conversion to high-definition





4x enlargement, pixel replication



4x enlargement, bi-cubic interpolation





4x enlargement, super-resolution

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