

# 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

