Motion Invariant Photography

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Linear-rail motions



















Human motion

























Deviation from horizontal motion- forward motion







Deviation from horizontal motion- vertical hands motion



















Human motion failures







Standing-up motion. Motion is mostly vertical leading to artifacts in the deblurred face. Some clothing deblurred properly, despite the dominant horizontal component.







Rotation, generating object velocities at all orientations and many different speeds. Considering the non horizontal orientation range, deblurring result is relatively good.



High motion velocity. Notice the head smear.





High motion velocity. Low SNR and PSF tail artifacts.