

Registration of Colored 3D Point Clouds with a Kernel-based Extension to the Normal Distributions Transform

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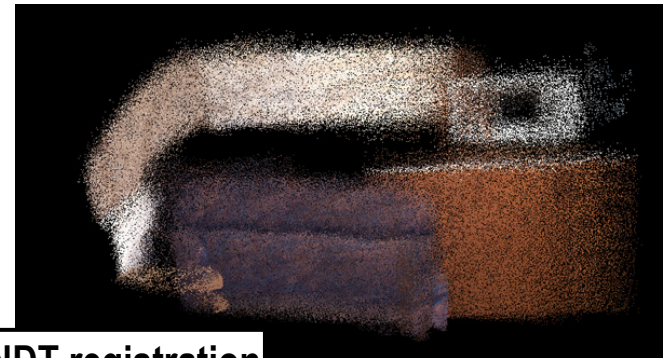
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Color NDT:

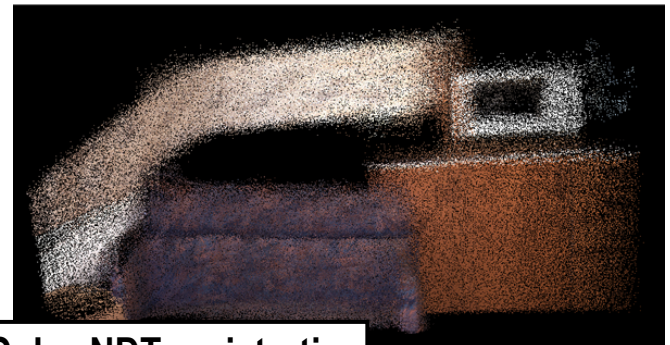
- new color-aware probabilistic registration method based on NDT: point distributions modeled as Gaussian mixture in color space

Contributions:

- discussion of different point cloud registration techniques
- superior Color-NDT results using mobile robot with time-of-flight camera and small fov



NDT registration



Color-NDT registration