Documentation

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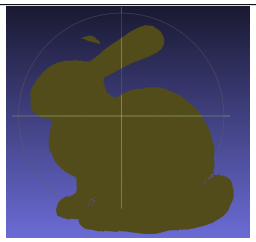
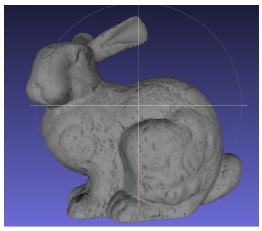
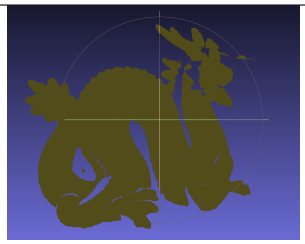
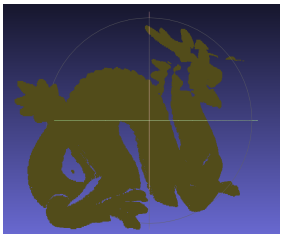
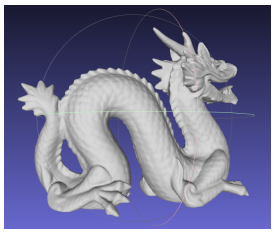
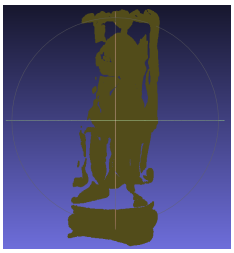
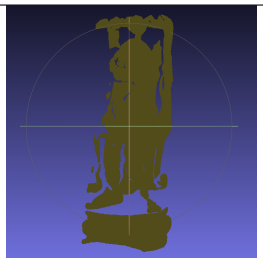
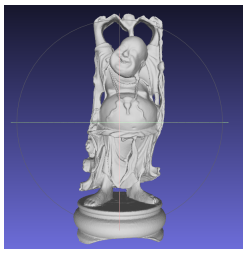
# Comparing results of ICP to TR-ICP and to the ground truth

| | ICP | TR-ICP | Ground truth |
|---|---|---|---|
| bunny |  | |  |
| dragon |  |  |  |
| happy statue |  |  |  |

# Evaluation

## Evaluation without Gaussian noise

| | ICP | | TR-ICP | |
|---|---|---|---|---|
| | runtime | number of iterations | runtime | number of iterations |
| bunny | 1 | 100 | 1 | 100 |
| dragon | 1 | 100 | 2 | 100 |
| happy | 1 | 100 | 2 | 100 |

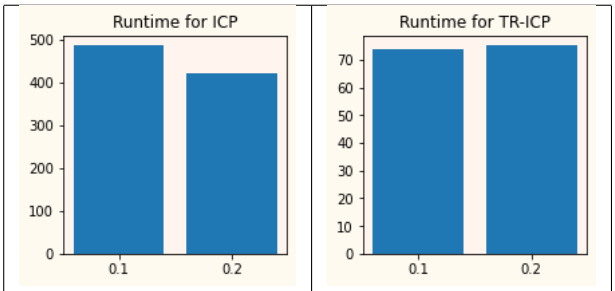
## Evaluation with Gaussian noise for "happy" pairs of point clouds

| | ICP | |
|---|---|---|
| level of noise | runtime | number of iterations |
| 0.1 | 485 | 100 |
| 0.2 | 421 | 100 |

| | TR-ICP | |
|---|---|---|
| level of noise | runtime | number of iterations |
| 0.1 | 74 | 12 |
| 0.2 | 75 | 14 |

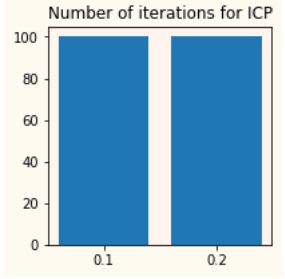
## Plotting results for "happy" pairs of point clouds

### Results of runtime for ICP and TR-ICP

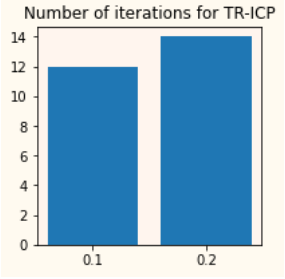



ICP | TR-ICP

## Results of number of iterations for ICP and TR-ICP




ICP




TR-ICP