Re: More data?

Ron Kimmel <ron@cs.technion.ac.il>
Sat 8/28/2021 11:21 PM

To: Lotem Nadir <lotemn@campus.technion.ac.il>
Cc: Maayan Agmon <agmon.mn@gmail.com>

Hi Lotem

The "hallow" is the result of depth reconstruction from stereo. There are parts that can be viewed only by one camera and thus depth can not be extracted there..

convex hull - did not means explicit geometric.

Removing the background makes a lot of sense. I'd suggest working on both intensity and depth (which should be aligned) to train a pose estimation module. The rough and noisy depth should be used to refine and calibrate the current open pose like results.

So results should improve compared to open pose. This should be the current goal..

We'll have a group meeting on wed. Be happy to get updated then.

Best
Ron

Sent from my iPhone

> On 28 Aug 2021, at 13:11, Lotem Nadir <lotemn@campus.technion.ac.il> wrote:

> You can see that there is kind of halo surrounding the object. I think it might be due to measurement errors in the sensor, or numeric errors in realsense alignment algorithm, since all these depth values are 0... Also, I think we should consider removing the background in those images. We want the model to learn the relative depth differences between the object's body parts, and not the relative depth differences between the object and the wall behind him for example... Do you think removing the background from the depth images is a good idea?

> The background (and the halo) can be removed by using the objects distance from the camera as threshold