

NII International Internship program

Segmented Fusion

Bounding-Boxes

20171124

Sylvia

Advisors: Prof. A.Sugimoto

Ass.Prof. D.Thomas

Summary

- ♣ Previously
 - ♣ Co-Fusion
 - ♣ Get overlapping vertices
- ♣ Progress
 - ♣ Co-Fusion: GPU doesn't meet the minimal requirement
 - ♣ Bounding-boxes: reshape the bounding-boxes in the 1st frame to let the surface fit between two body parts

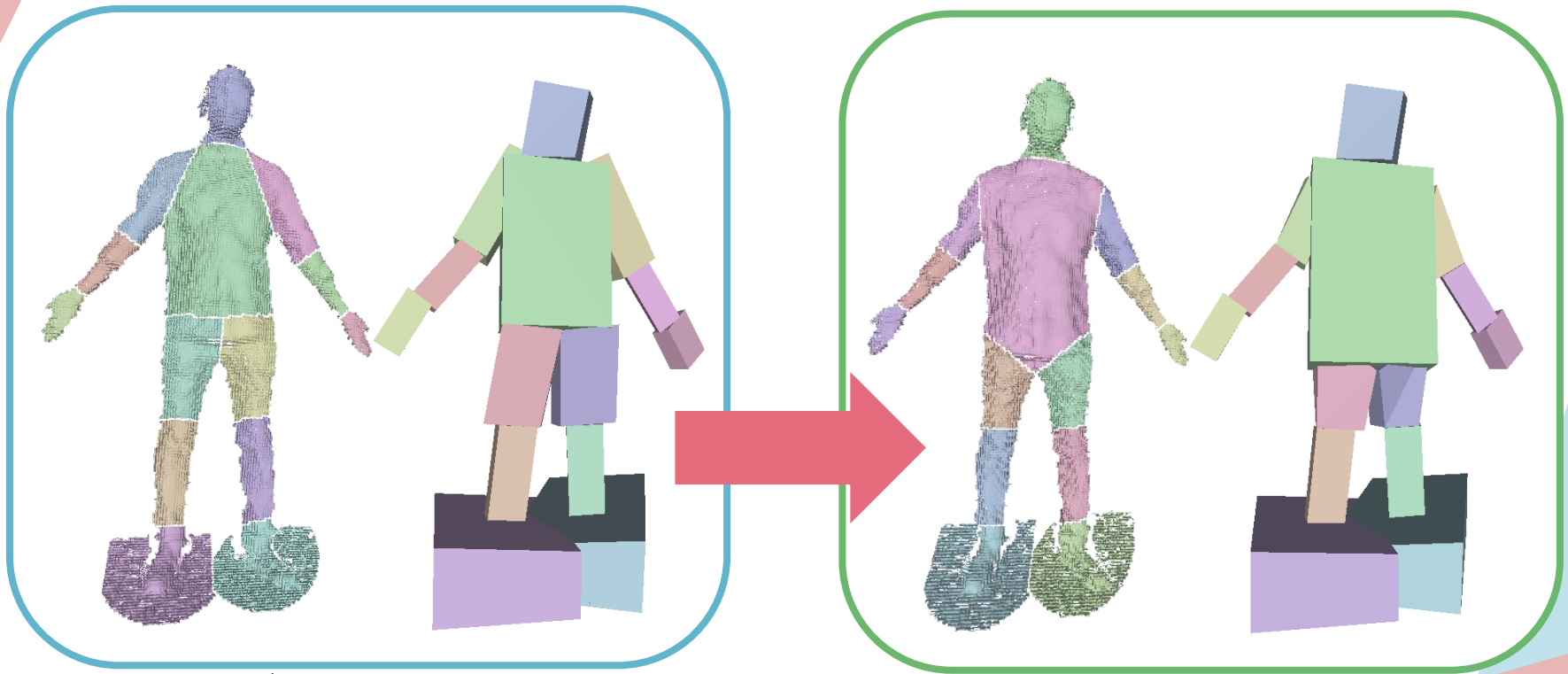
[1] Rünz, Martin, and Lourdes Agapito. "Co-fusion: Real-time segmentation, tracking and fusion of multiple objects." *Robotics and Automation (ICRA), 2017 IEEE International Conference on*. IEEE, 2017.

Presenter: Sylvia

Advisors: Prof. A.Sugimoto, Ass.Prof. D.Thomas

Bounding-boxes

- ♣ Since the shapes of upper arm and thigh are not perfect cuboid, I modified the Segmentation to change the shape of these two parts.

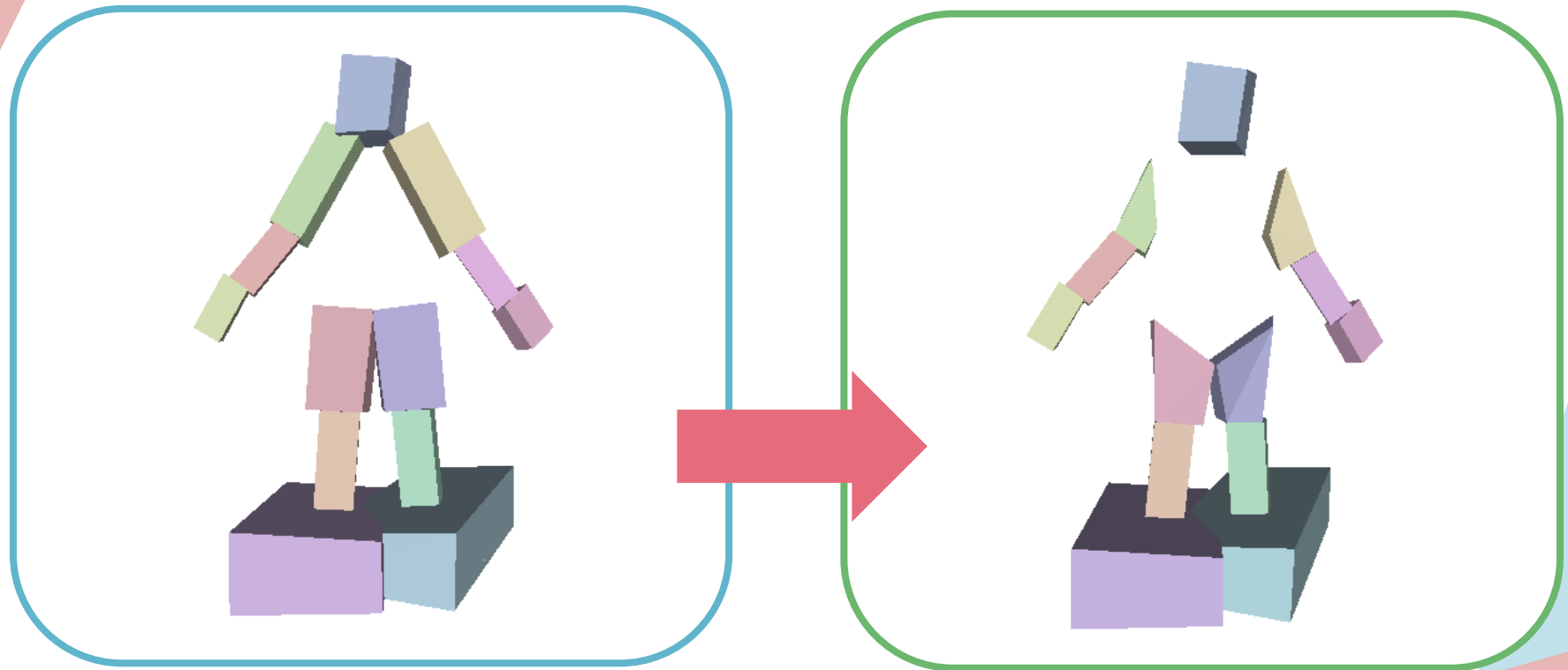


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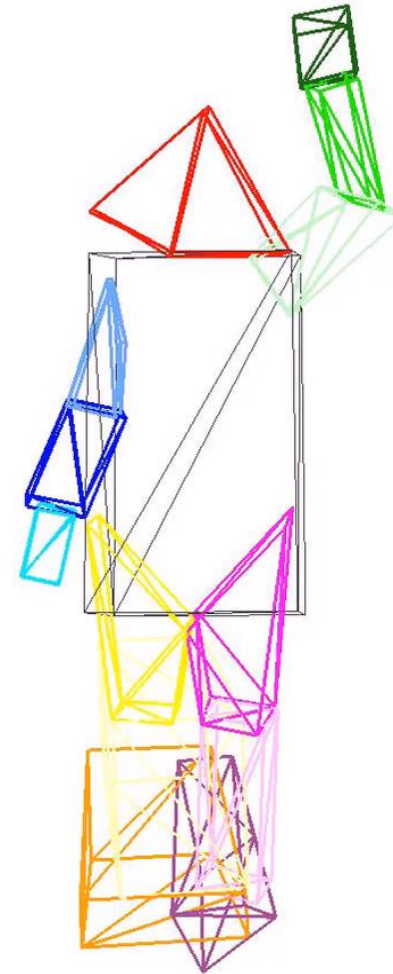
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♣ The bounding-boxes and mesh result



♣ Another example



Next step

- ♣ Deform the bounding-boxes when tracking