In food image recognition, semantic segmentation is one of the important tasks. There are several applications such as food volume estimation and food calorie estimation.

There are no large-scale food segmentation datasets. The foods have many classes and variations. Weakly supervised segmentation is one of the solutions for the annotation problem.

**Background**

In food image recognition, semantic segmentation is one of the important tasks. There are several applications such as food volume estimation and food calorie estimation.

**Objective**

- Deduce plate areas without pixel-wise annotation
- Improve the accuracy of weakly-supervised food segmentation using food plate segmentation

**Reference**

1. SSDD, Shimoda et al., ICCV 2019
2. Simple does it, Khoreva et al., CVPR 2017, arxiv:1603.07485