

Supplementary Figures

Ullah et al. 'Automated Generation of Ground Truth Images of Greenhouse-grown Plant Shoots Using a GAN Approach', Plant Methods

August 8, 2025



Figure 1: Average Dice Coefficient (aDC) of Pix2Pix trained on varying numbers of training images for *Arabidopsis*, barley, and maize plants.

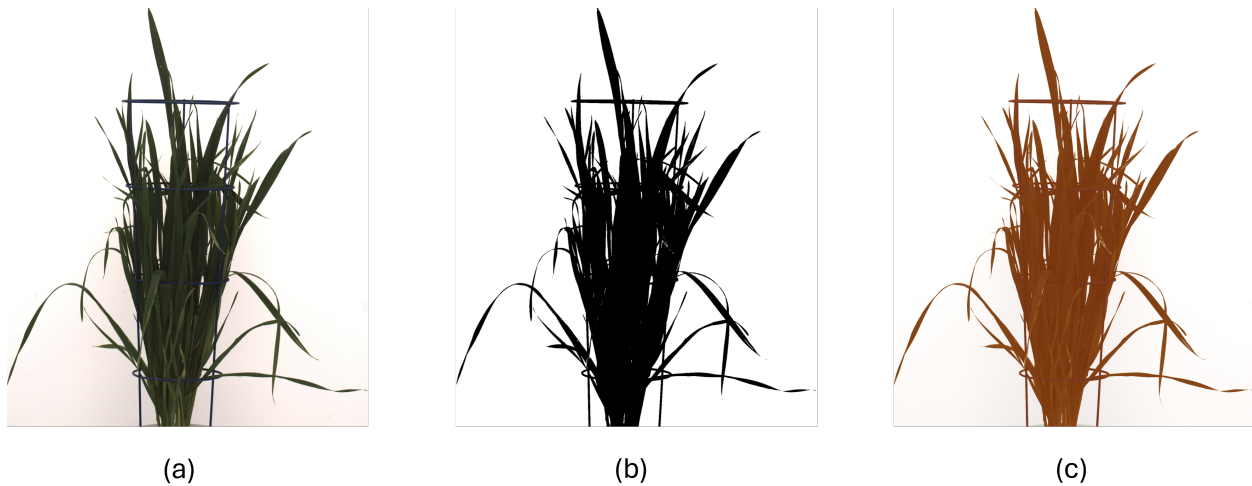


Figure 2: Example of Pix2Pix-based barley plant ground-truth. (a) Original RGB image. (b) Ground truth binary mask. (c) Overlay of Pix2Pix-predicted mask on the ground truth image.

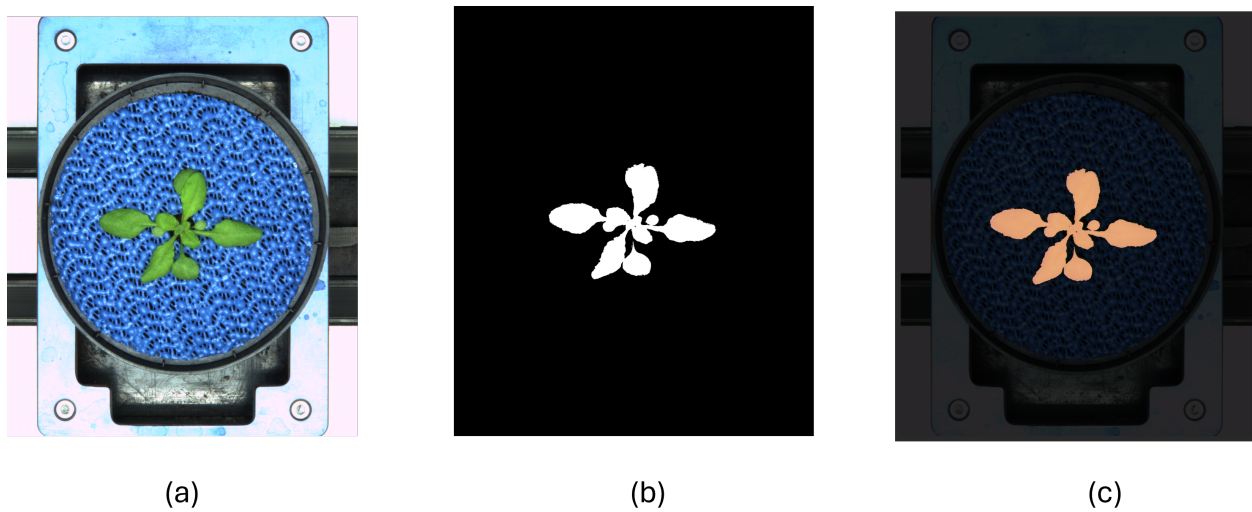


Figure 3: Example of Pix2Pix-based *Arabidopsis* plant ground-truth. (a) Original RGB image. (b) Ground truth binary mask. (c) Overlay of Pix2Pix-predicted mask on the ground truth image.

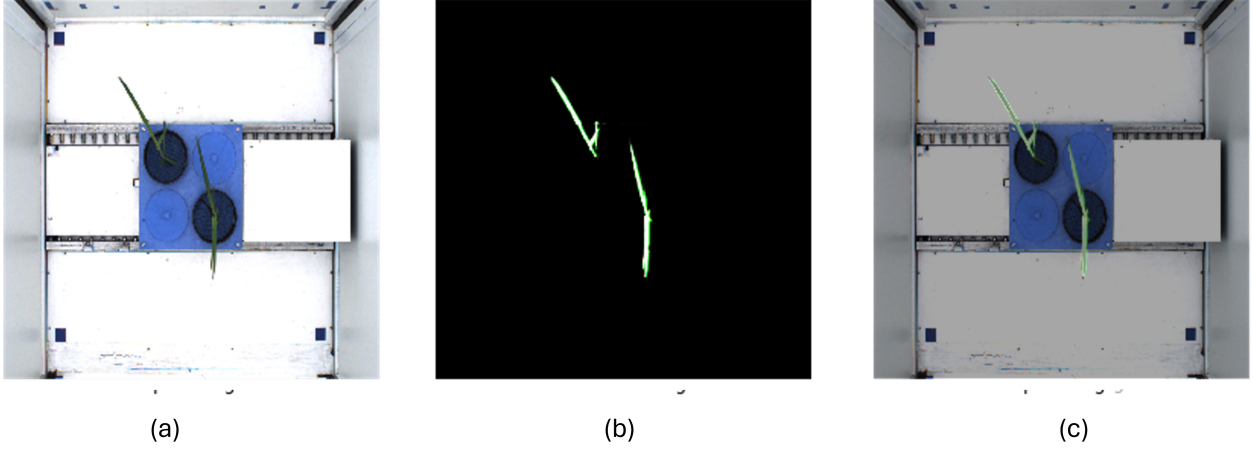


Figure 4: Example of Pix2Pix-based maize plant ground-truth. (a) Original RGB image. (b) Ground truth binary mask. (c) Overlay of Pix2Pix-predicted mask on the ground truth image.

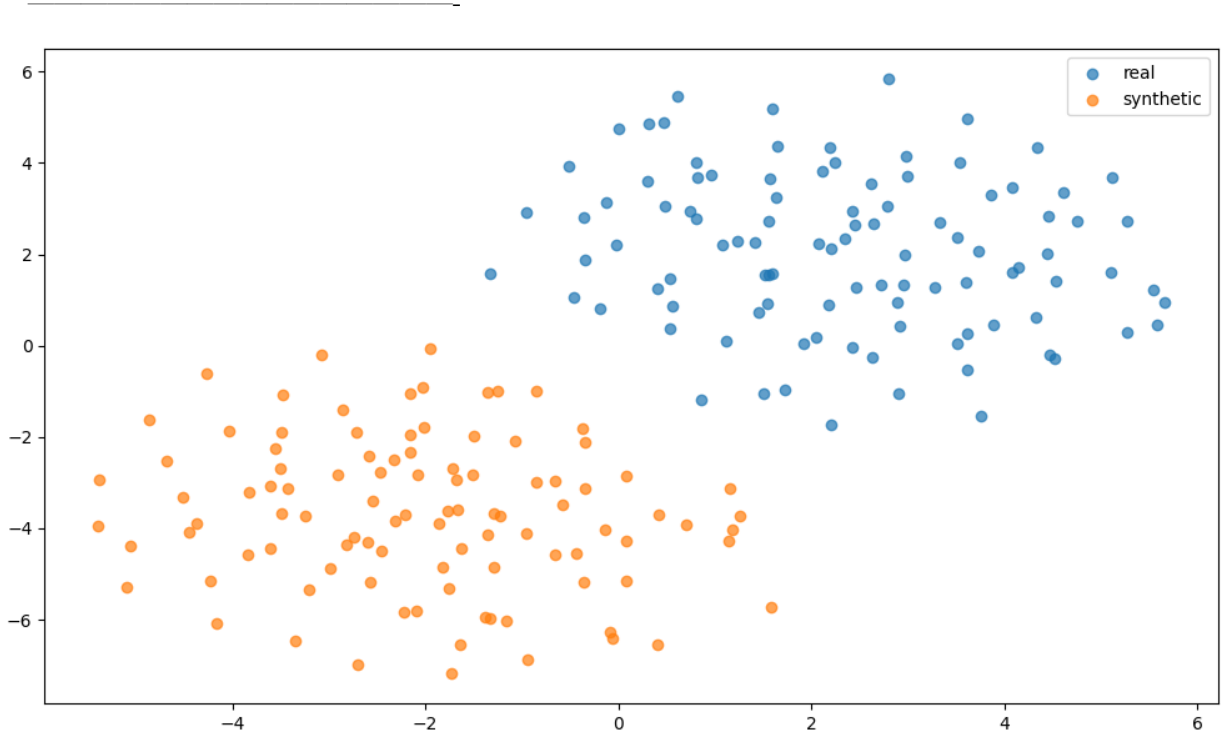


Figure 5: Visualization of t-SNE 1,2 components of feature embeddings extracted from real and GAN-generated RGB images of barley plants.

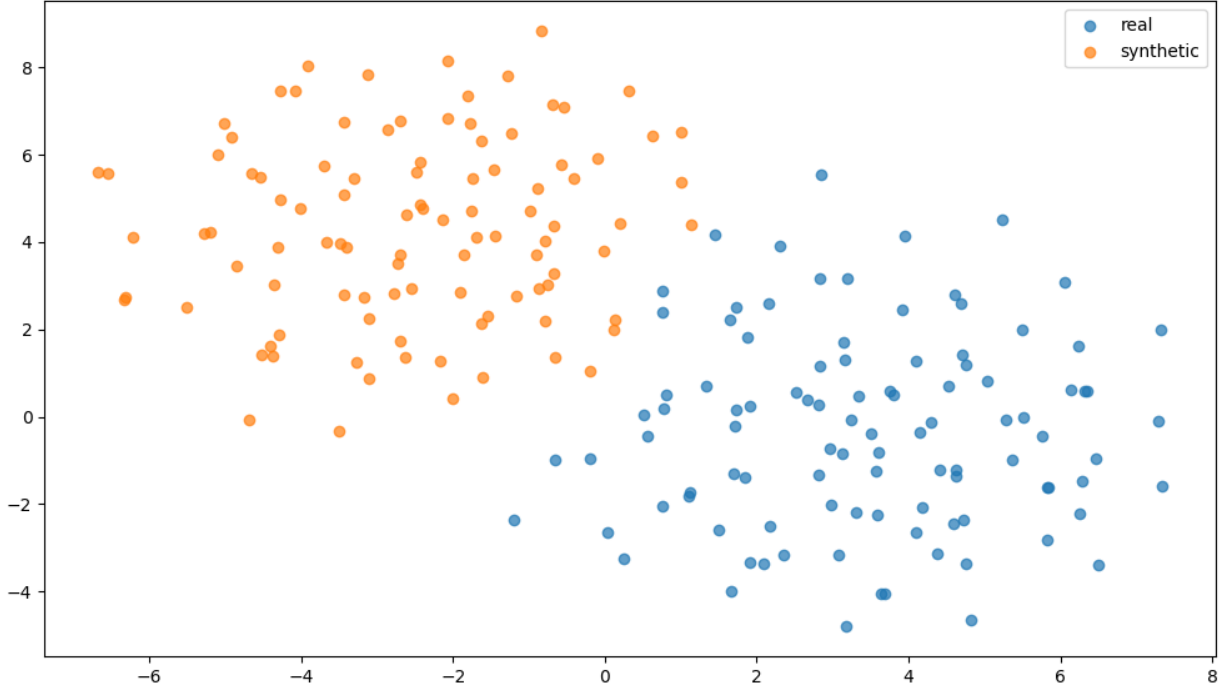


Figure 6: Visualization of t-SNE 1,2 components of feature embeddings extracted from real and GAN-generated RGB images of *Arabidopsis*.

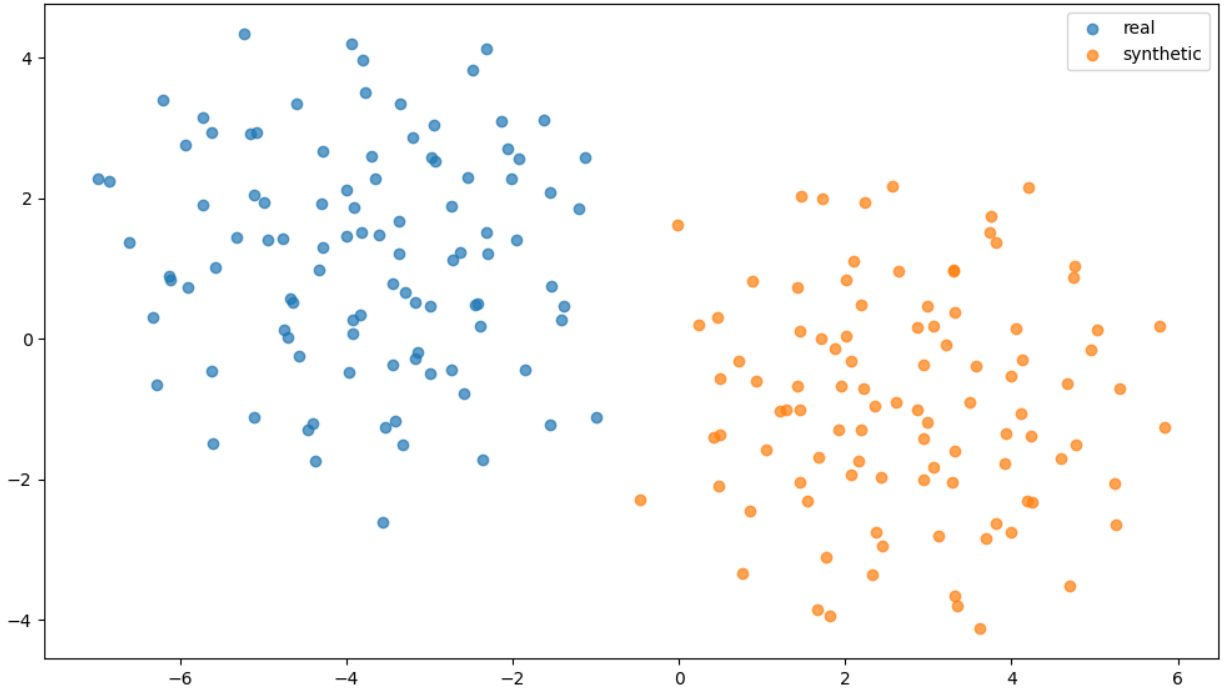


Figure 7: t-SNE visualization of feature embeddings extracted from real and GAN-generated RGB images of maize plants.