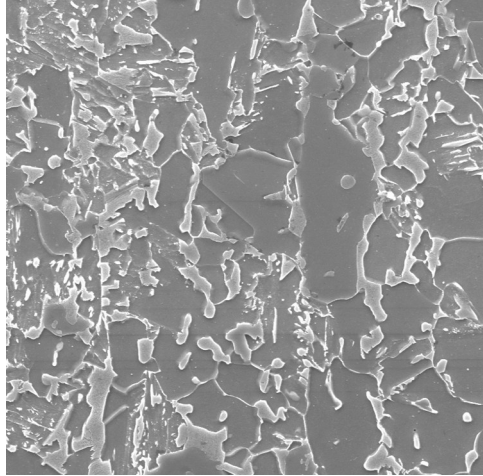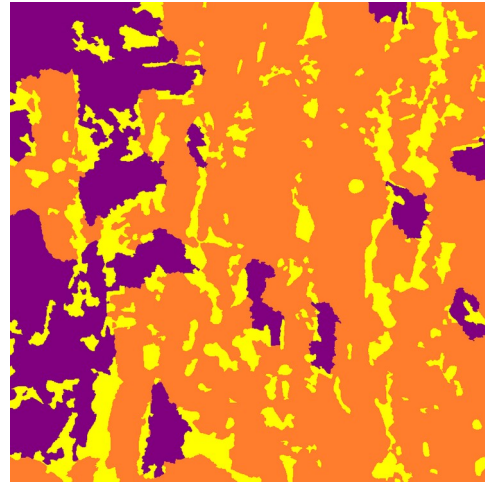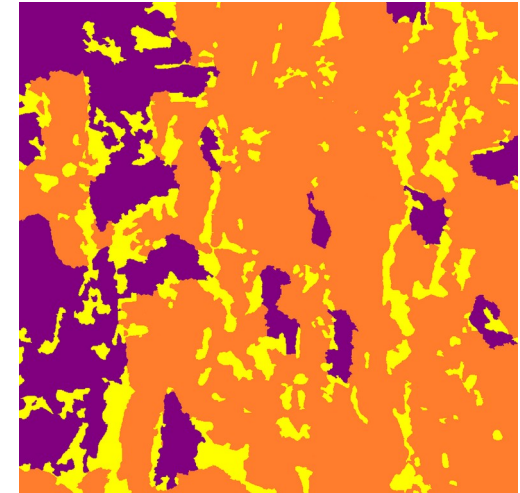# Model Output [Model 7]

Input Test Image

Input Label Image

Output Test Image

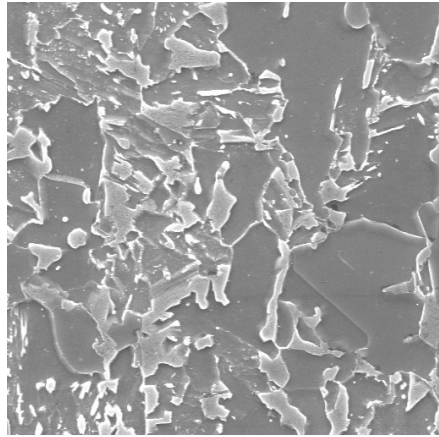Validation mIOU → 0.1734

Validation Acc → 56.87

Test Accuracy → 82.99

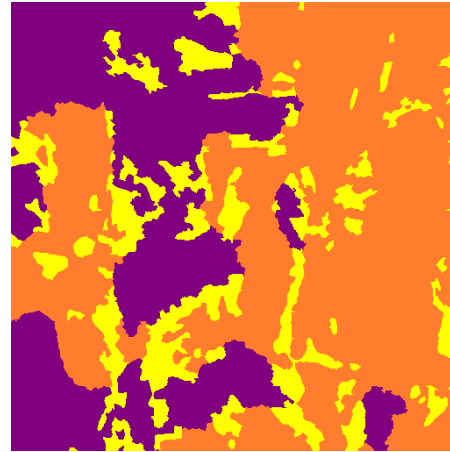Dice Coefficient → 0.81350676 (avg of 48 test images)

Traning mIoU → -

Training Acc → 91.68

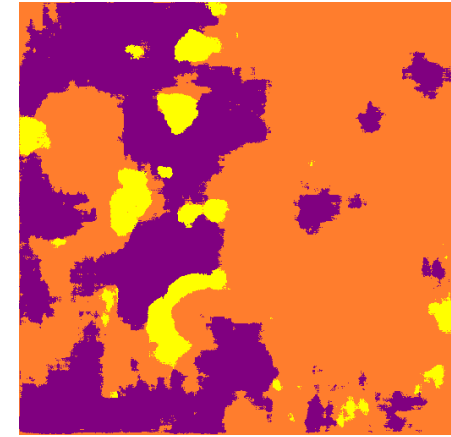# Model Output [Model 8][after 200 iter]

Input Test Image

Input Label Image

Output Test Image

Validation mIOU → 0.3728

Training mIoU → 0.41621

Validation Acc → 70.32

Training Acc → 78.54

Test Accuracy → 61.79

Dice Coefficient → 0.602

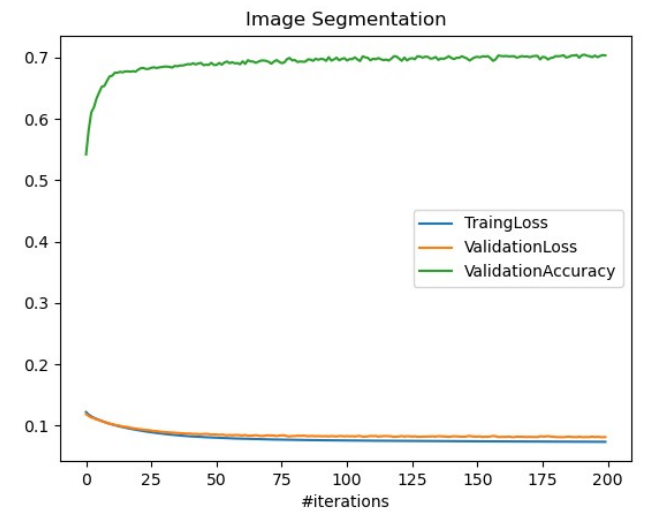# Model Performance
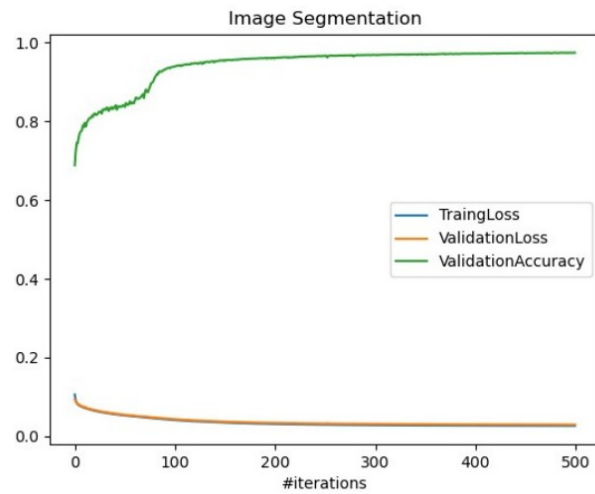
Model 6
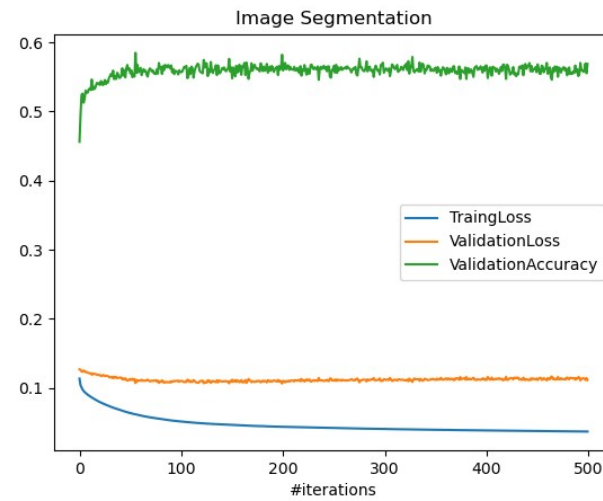
Model 7

Model 8

Testing on other type of steel data

Accuracy % on test set

	x3000	x5000	typeA	typeB	typeC
Model 6	58.85	28.82	46.29	73.61	34.48
Model 7	75.81	83.29	74.83	55.9	69.94
Model 8	70.01	78.75	47.71	7.46	40.48

Model 6, 7, 8

	Model 6	Model 7	Model 8
Augmentation	Zoom Sliding Window	• Magnification • sliding window • random Intensity • random gamma • rotation up to 10 de-grees	• Magnification • sliding window • random Intensity • random gamma • random noise • horizontal and vertical flip • rotation up to 20 de-grees
Training Image Size	(512x512)	(512x512)	(800, 800)
(Train, Validation, Test)	(5780, 426, 48)	(11724, 213, 48)	(10000, 3000, 920)
Accuracy (#iterations)	98.91 (500)	91.68 (500)	78.54 (200)