images were generated considering the maximum saliency distance between the image generated by the GAN an
the lesion image from the dataset. The lesions are placed in the same lung side from the original image from th
dataset. p stands for probability. The values highlighted in green show the data augmentation techniques in which
the P-value achieved values lower than 0.05, and thus the null hypothesis was rejected (i.e., there is a statistical
difference and the results achieved are better than without data augmentation). The underscored values show whe
training with the proposed salience augmentation achieved a P-value lower than 0.05 when compared with trainin
with the augmentation proposed by (Krinski et al., 2023), and the null hypothesis was rejected.

Table 7.1: Results of the salience version of the data augmentation evaluation when unifying the training sets. The

p	Augmentation	CC-CCII		MedSeg		MosMed		Ricord1a		Zenodo	
		F-score	IoU	F-score	IoU	F-score	IoU	F-score	IoU	F-score	IoU
	No Augmentation	0.8636	0.8087	0.8881	0.8253	0.8185	0.7547	0.8599	0.7947	0.9096	0.8514
	Stargan	0.8642	0.8000	0.8862	0.8233	0.8200	0.7564	0.8536	0.7878	0.0001	0.8507

		F-score	IoU	F-score	IoU	F-score	IoU	F-score	IoU	F-score	IoU
	No Augmentation	0.8636	0.8087	0.8881	0.8253	0.8185	0.7547	0.8599	0.7947	0.9096	0.8514
0.05	Stargan Stylegan	$\frac{0.8642}{0.8609}$	0.8090 0.8062	0.8862 0.8868	0.8233 0.8236		0.7564 0.7565	0.8536 0.8503	0.7878 0.7837	0.9091 0.9087	0.8507 0.8503
0.1	Stargan	0.8662	0.8109	0.8874	0.8247	0.8211	0.7574	0.8610	0.7962	0.9100	0.8519

0.8248

0.8247

0.8253

0.8250

0.8270

0.8247

0.8264

0.8265

0.8276

0.8270

0.8283

0.8266

0.8281

0.8271

0.8291

0.8283

0.8278

0.8202

0.8257

0.8237

0.8221

0.8234

0.8253

0.8205

0.8248

0.8259

0.8275

0.8239

0.8250

0.8250

0.8273

0.8257

0.8275

0.8268

0.8586

0.8736

0.8655

0.8677

0.8665

0.8736

0.8683

0.8717

0.8668

0.8745

0.8681

0.8732

0.8689

0.8755

0.8701

0.8734

0.8697

0.7930

0.8107

0.8014

0.8039

0.8028

0.8107

0.8049

0.8085

0.8031

0.8119

0.8047

0.8104

0.8053

0.8132

0.8069

0.8108

0.8066

0.9087

0.9113

0.9102

0.9105

0.9109

0.9110

0.9112

0.9105

0.9101

0.9111

0.9112

0.9109

0.9112

0.9118

0.9108

0.9114

0.9108

0.8502

0.8537

0.8523

0.8525

0.8530

0.8533

0.8533

0.8529

0.8522

0.8532

0.8535

0.8532

0.8534

0.8540

0.8529

0.8539

0.8528

0.7564

0.7630

0.7599

0.7590

0.7604

0.7624

0.7578

0.7619

0.7617

0.7642

0.7606

0.7612

0.7619

0.7640

0.7623

0.7638

0.7633

0.1

0.15

0.2

0.25

0.3

0.35

0.4

0.45

0.5

Stylegan

Stargan

Stylegan

0.8653

0.8621

0.8668

0.8621

0.8643

0.8628

0.8647

0.8654

0.8609

0.8690

0.8644

0.8676

0.8622

0.8643

0.8641

0.8641

0.8646

0.8099

0.8069

0.8112

0.8073

0.8091

0.8066

0.8100

0.8091

0.8048

0.8130

0.8090

0.8122

0.8055

0.8088

0.8075

0.8097

0.8086

0.8881

0.8878

0.8881

0.8880

0.8898

0.8875

0.8894

0.8894

0.8904

0.8895

0.8907

0.8894

0.8907

0.8896

0.8915

0.8904

0.8904