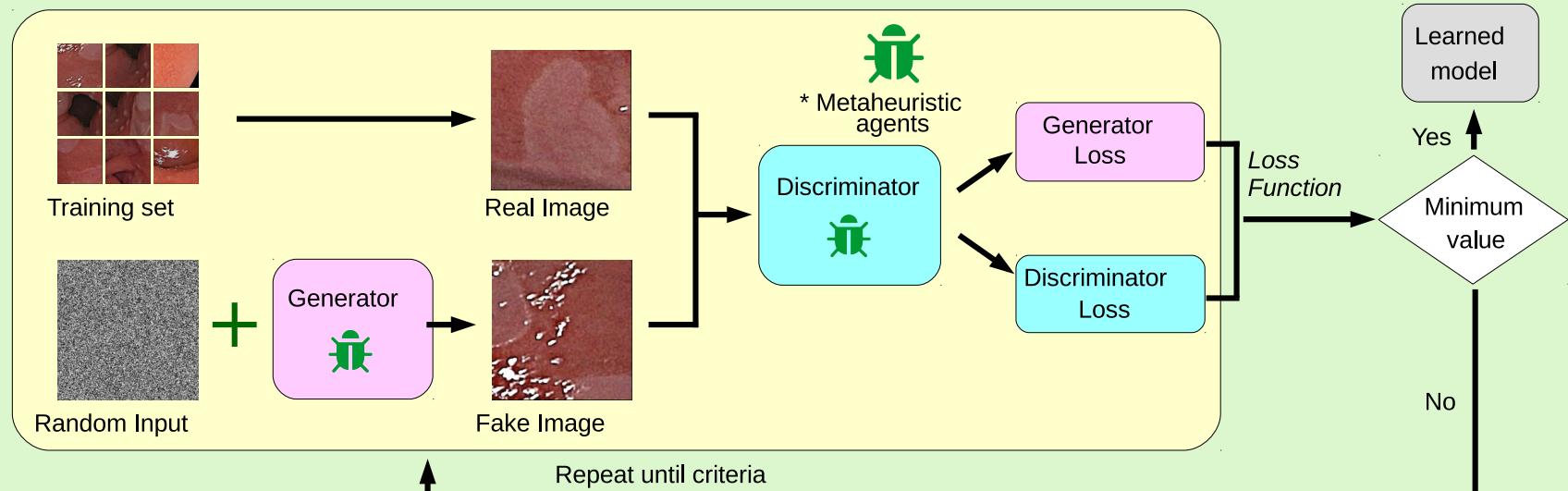


Fine-tuning Generative Adversarial Networks Using Metaheuristics Case Study on Barrett's Esophagus Identification

GAN hyperparameters are optimized through metaheuristic approaches for Barret's Esophagus synthetic image generation.



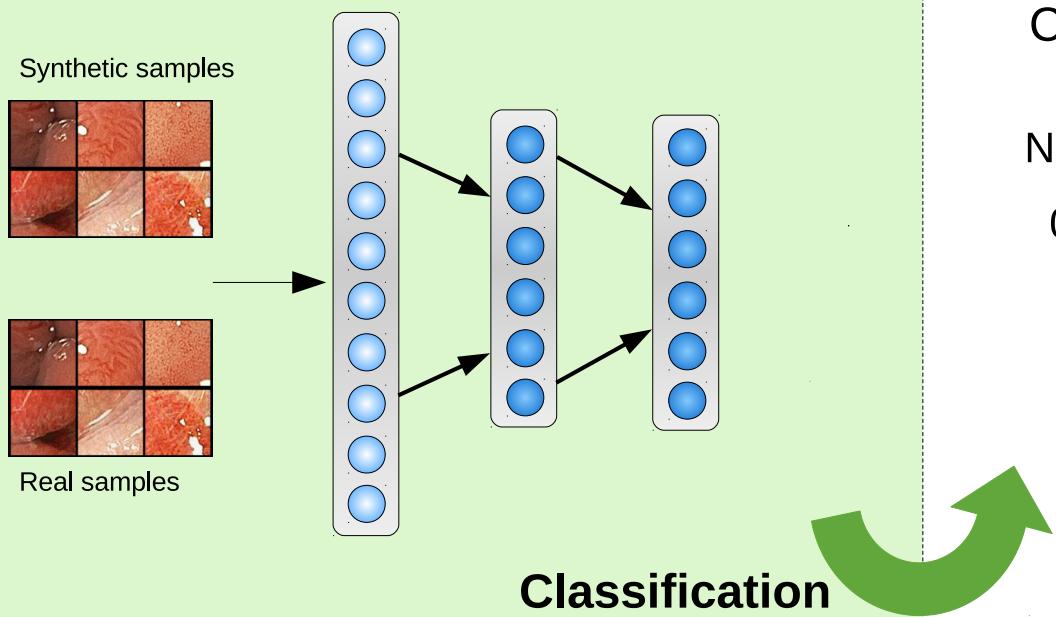
Data Augmentation



Metaheuristic optimization results (best - closest to 0):

		BSA	BSO	FA	FPA	JADE
Augsburg	AD	0.0049	0.0074	0.0025	0.0140	0.0053
	BE	0.0011	0.0045	0.0036	0.0057	0.0105
MICCAI	AD	0.0033	0.0074	0.0046	0.0037	0.0057
	BE	0.0045	0.0029	0.0010	0.0011	0.0018

Real and synthetic images feed a DL model for BE identification.



Classification results (accuracy):

Augsburg	MICCAI
No DA	GAN DA
0.73	0.90

