

Radiogenomic classification of glioblastoma using multimodal 3D MRI

Multi-task-model (MTL) results

Middle slice : T1-weighted				
λ	Mean IoU	AUC	Accuracy	Precision
0.1	0.735	0.526	0.51	0.55
0.3	0.714	0.531	0.45	0.48
0.5	0.719	0.512	0.46	0.52
0.7	0.702	0.599	0.50	0.58
0.9	0.695	0.541	0.55	0.60

Table 5.2: Performance of 2D middle slice MTL (T1)

Middle slice : FLAIR				
λ	Mean IoU	AUC	Accuracy	Precision
0.1	0.868	0.542	0.58	0.58
0.3	0.845	0.587	0.53	0.60
0.5	0.858	0.536	0.52	0.56
0.7	0.851	0.534	0.51	0.56
0.9	0.793	0.441	0.45	0.50

Table 5.3: Performance of 2D middle slice MTL (Flair)

10 sampled slice : Flair				
λ	Mean IoU	AUC	Accuracy	Precision
0.1	0.898	0.4712	0.46	0.47
0.3	0.890	0.516	0.53	0.52
0.5	0.882	0.497	0.51	0.50
0.7	0.846	0.548	0.56	0.53

Table 5.4: Performance of 2D 10-slice MTL (Flair)