Supplementary Material – Weakly-Supervised Cell Segmentation for Multiplex Immunohistochemistry Images

Anonymous ECCV submission

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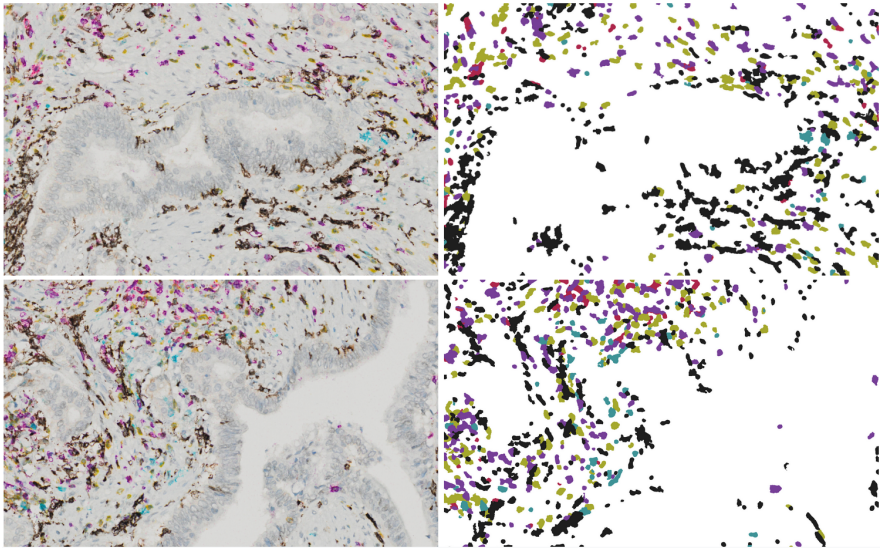

Fig. 1. Left: Two full size patches of 1200 × 1920 pixels from the test set. Right: Segmentation predictions using the ensemble method *CDNet anchor MS-UNet*.

Table 1. Evaluation of MS-UNet model on the test set under different settings of λ_2 and λ_3 given a fixed λ_1=0.75. The first row contains the settings of the best MS-UNET model with the best overall F1-score.

	F1-score					
λ_2, λ_3	CD16	CD3	CD4	CD8	CD20	Mean
0.00, 0.00	0.7473	0.6380	0.5859	0.6478	0.3455	**0.5929**
0.00, 0.25	0.6920	0.5913	0.6102	0.6381	0.3191	0.5701
0.00, 0.50	0.7263	0.6284	0.6016	**0.6482**	0.3023	0.5814
0.00, 0.75	0.6869	0.6134	0.5621	0.6177	0.3202	0.5600
0.00, 1.00	0.7128	0.5975	0.5826	0.6381	0.2754	0.5613
0.25, 0.00	0.6005	0.5101	0.5962	0.6361	0.3084	0.5303
0.25, 0.25	0.7243	0.5977	**0.6214**	0.6127	0.3556	0.5823
0.25, 0.50	0.7641	0.6204	0.5951	0.6313	0.2901	0.5802
0.25, 0.75	0.7025	0.5881	0.5820	0.6281	0.3406	0.5683
0.25, 1.00	0.6687	0.6464	0.5691	0.6306	0.3243	0.5678
0.50, 0.00	**0.7643**	0.5501	0.5651	0.6205	0.3734	0.5747
0.50, 0.25	0.6992	0.6347	0.6110	0.6362	0.3328	0.5828
0.50, 0.50	0.7076	0.5726	0.5726	0.6432	0.3654	0.5723
0.50, 0.75	0.7163	0.6074	0.5794	0.6214	0.2872	0.5624
0.50, 1.00	0.6205	**0.6491**	0.5772	0.6277	0.3148	0.5579
0.75, 0.00	0.6949	0.6401	0.5753	0.6278	0.2833	0.5643
0.75, 0.25	0.7199	0.5923	0.6125	0.6293	0.3595	0.5827
0.75, 0.50	0.7108	0.6307	0.5897	0.6072	**0.3753**	0.5827
0.75, 0.75	0.7325	0.6356	0.5570	0.6407	0.3283	0.5788
0.75, 1.00	0.7098	0.6068	0.5667	0.6394	0.3011	0.5648
1.00, 0.00	0.7282	0.6389	0.5632	0.6114	0.3150	0.5713
1.00, 0.25	0.6516	0.6236	0.5894	0.6438	0.3220	0.5661
1.00, 0.50	0.7640	0.6232	0.5704	0.6337	0.3358	**0.5854**
1.00, 0.75	0.6838	0.6443	0.5846	0.6373	0.2896	0.5679
1.00, 1.00	0.6791	0.6344	0.5706	0.6424	0.3180	0.5689