

Low-Rank Continual Pyramid Vision Transformer: Incrementally Segment Whole-Body Organs in CT with Light-Weighted Adaptation — Supplementary Material

Table S1. Labeled organ list of each dataset. Please refer to TotalSegmentator[23] for detailed organ list of each group.

Datasets	Organs
TotalSeg	26 major organs, 8 vessels, 10 muscles, 59 bone instances
CHO	overlapping: aorta, heart, left/right lung, inferior vena cava, esophagus, pulmonary artery; new: airway, sternum, left/right thyroid, superior vena cava, pulmonary vein, scalenus muscle, scalenus anterior muscle, sternocleidomastoid muscle
HNO	brain stem, spinal cord, left/right eye, left/right optic nerve, chiasm, left/right parotid
EsoTumor	overlapping: esophagus with tumor

Table S2. Step-wise mean DSC (% , \uparrow) and forgetting rate (FR) (% , \downarrow) of CSS methods on each dataset and all 121 organs ('All'). EsoTumor is not included since no forgetting rate is calculated for the last continual step.

Methods	Step	TotalSeg		CHO		HNO		All	
		DSC	FR	DSC	FR	DSC	FR	DSC	FR
Order A: TotalSeg \rightarrow CHO \rightarrow HNO \rightarrow EsoTumor									
MiB[1]	2	43.07	53.15	84.45	—	—	—	48.63	53.15
	3	12.53	86.37	39.79	52.88	84.62	—	21.01	69.63
	4	9.18	90.01	28.55	66.19	9.21	89.12	12.19	81.77
PLOP[4]	2	58.98	35.84	82.66	—	—	—	62.16	35.84
	3	40.11	56.37	70.31	14.94	82.88	—	46.89	35.65
	4	37.92	58.75	66.98	18.97	34.68	58.16	41.65	45.29
LISMO[14]	2	50.43	45.14	84.46	—	—	—	55.01	45.14
	3	15.02	83.66	44.24	47.62	84.9	—	23.59	65.64
	4	11.71	87.26	43.07	49.01	9.22	89.14	16.01	75.14
SUN[9]	2	91.93	0	84.33	—	—	—	90.91	0
	3	91.93	0	84.33	0	84.79	—	90.48	0
	4	91.93	0	84.33	0	84.79	0	90.45	0
Ours	2	91.07	0	81.51	—	—	—	89.78	0
	3	91.07	0	81.51	0	82.9	—	89.30	0
	4	91.07	0	81.51	0	82.9	0	89.26	0
Order B: TotalSeg \rightarrow HNO \rightarrow CHO \rightarrow EsoTumor									
MiB[1]	2	23.36	74.59	—	—	84.87	—	31.63	74.59
	3	12.08	86.86	84.43	—	9.88	88.36	20.97	86.86
	4	11.24	87.77	78.65	6.85	9.09	89.29	20.04	61.30
PLOP[4]	2	47.32	48.53	—	—	83.71	—	52.21	48.53
	3	32.65	64.48	84.15	—	25.54	69.49	38.59	64.48
	4	31.58	65.65	79.47	5.56	22.78	72.79	37.31	48.00
LISMO[14]	2	27.21	70.40	—	—	84.94	—	34.97	70.40
	3	15.94	82.66	84.49	—	10.13	88.07	24.10	82.66
	4	15.01	83.67	79.49	5.92	8.93	89.49	23.14	59.69
SUN[9]	2	91.93	0	—	—	84.79	—	90.97	0
	3	91.93	0	84.33	—	84.79	0	90.48	0
	4	91.93	0	84.33	0	84.79	0	90.45	0
Ours	2	91.07	0	—	—	82.9	—	89.97	0
	3	91.07	0	81.51	—	82.9	0	89.30	0
	4	91.07	0	81.51	0	82.9	0	89.26	0