Supplementary Material - SelectNAdapt: Support Set Selection for Few-Shot Domain Adaptation

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In the supplementary material, we show the per domain results of the PACS datasets for the support set selection methods, namely, random, entropy, MC-dropout, and our *SelectNAdapt* algorithm. Results are shown in Tab. 1. We observe an overall consistently better results using our selection method compared to the baselines.

Support Set Selection Method	K-shot	PACS			
		Art	Cartoon	Photo	Sketch
Random [1]	1	77.9	80.0	95.9	72.5
	5	85.0	83.3	96.5	81.5
	10	86.8	86.4	97.7	79.5
Entropy	1	77.6	78.6	95.6	68.4
	5	85.7	84.4	97.3	77.6
	10	87.3	85.8	97.4	79.2
MC-dropout	1	78.3	79.2	95.2	68.4
	5	85.9	83.9	97.2	77.5
	10	86.9	85.8	97.2	79.2
Ours	1	84.6	83.0	97.4	72.9
	5	88.6	84.3	97.8	81.0
	10	89.0	85.5	97.8	79.4

Table 1. A comparison of few-shot adaptation test results using random, entropy, MC-dropout and *SelectNAdapt* algorithm (***Ours***) for the domains of PACS dataset.

References

[1] Wenyu Zhang, Li Shen, Wanyue Zhang, and Chuan-Sheng Foo. Few-shot adaptation of pre-trained networks for domain shift. In Lud De Raedt, editor, *Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence, IJCAI-22*, pages 1665–1671. International Joint Conferences on Artificial Intelligence Organization, 7 2022. Main Track. 1