Performance Report

CLIP_baseline

The testing procedure consists of evaluating the model with the following specifications on several datasets in order to perform zero-shot classification, few-shot classification, KNN classification and image retrieval.

model	CLIP
${f model_checkpoints}$	CLIP
datasets	'zero_shot': ['EuroSAT', 'MLRSNet', 'OPTIMAL_31', 'Pattern-
	Net', 'RESISC45', 'RSI_CB256', 'RSICD', 'RSITMD', 'SIRI_WHU',
	'UCM', 'WHU_RS19'], 'image_retrieval': ['RSICD', 'RSITMD', 'SID-
	NEY', 'UCM']
${ m text_template}$	a satellite photo of a
$lnr_prob_max_iterations$	1000
${f n}_{f n}$ neighbors	10
$image_retrieval_N_rank$	20
${\bf include_baseline}$	False

Zero-shot classification

EuroSAT	m MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	$^{ m UCM}$	WHU_RS19
0.335	0.460	0.680	0.539	0.742	0.282	0.596	0.473	0.458	0.612	0.771

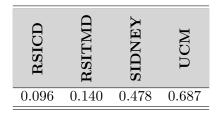
Linear-probe classification

EuroSAT	m MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	UCM	WHU_RS19
0.957	0.938	0.952	0.988	0.981	0.989	0.953	0.929	0.940	0.948	0.990

KNN classification

EuroSAT	m MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	Ω CM	WHU_RS19
0.909	0.921	0.919	0.981	0.976	0.985	0.913	0.927	0.902	0.926	0.985

Image To Text



Text To Image

