
Performance Report

CLIP_rsicd_v2_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_rsicd_v2
model_checkpoints	None
datasets	'zero_shot': ['EuroSAT', 'MLRSNet', 'OPTIMAL_31', 'PatternNet', 'RESISC45', 'RSL_CB256', 'RSICD', 'RSITMD', 'SIRI_WHU', 'UCM', 'WHU_RS19'], 'image_retrieval': ['RSICD', 'RSITMD', 'SIDNEY', 'UCM']
text_template	a satellite photo of a
lnr_prob_max_iterations	1000
n_neighbors	10
image_retrieval_N_rank	20
include_baseline	False

Zero-shot classification

EuroSAT	MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSL_CB256	RSICD	RSITMD	SIRI_WHU	UCM	WHU_RS19
0.500	0.621	0.849	0.696	0.799	0.466	0.861	0.812	0.642	0.886	0.950

Linear-probe classification

EuroSAT	MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSL_CB256	RSICD	RSITMD	SIRI_WHU	UCM	WHU_RS19
0.970	0.944	0.935	0.991	0.982	0.993	0.952	0.962	0.956	0.981	1.000

KNN classification

EuroSAT	MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	UCM	WHU_RS19
0.946	0.928	0.911	0.984	0.977	0.989	0.932	0.956	0.940	0.962	1.000

Image To Text

RSICD	RSITMD	SIDNEY	UCM
0.406	0.313	0.651	0.923

Text To Image

RSICD	RSITMD	SIDNEY	UCM
0.263	0.334	0.367	0.312