
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
model_checkpoints	CLIP
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
0.335	0.460	0.680	0.539	0.742	0.282	0.596	0.473	0.458	0.612	0.771

Linear-probe classification

EuroSAT	MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSL_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	MLRSNet	OPTIMAL_31	PatternNet	RESISC45	RSI_CB256	RSICD	RSITMD	SIRI_WHU	UCM	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

RSICD	RSITMD	SIDNEY	UCM
0.096	0.140	0.478	0.687

Text To Image

RSICD	RSITMD	SIDNEY	UCM
0.076	0.154	0.323	0.234