

Article

Hyperspectral Image Classification via Information Theoretic Dimension Reduction

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Table S1. Training and testing samples of the AVIRIS IP dataset.

Class	Training data (50%)	Testing data (50%)
Alfalfa (C1)	21	20
Wheat (C2)	45	71
Bldge-Grass (C3)	23	20
Soybean-min (C4)	144	175
Stone-Steel (C5)	22	29
Soybean-notil (C6)	110	93
Grass/Pasture (C7)	110	75
Corn-notill (C8)	42	50
Soybean Clean (C9)	21	15
Corn-min (C10)	65	65
Hay-windrowed (C11)	168	145
Woods (C12)	286	256
Grass/Trees (C13)	80	100
Corn (C14)	70	80
Total samples	1207	1194

Table S2. Training and testing samples of the HYDICE WDM dataset.

Class	Training data (33%)	Testing data (67%)
Shadow (C1)	30	33
Tree (C2)	385	1457
Roof (C3)	130	130
Water (C4)	455	560
Street (C5)	310	389
Grass (C6)	365	910
Total samples	1675	3479

Table S3. Training and testing samples of the ROSIS PU dataset.

Class	Training samples (17%)	Testing samples (83%)
Asphalt (C1)	1200	3500
Meadows (C2)	630	4520
Gravel(C3)	120	830
Tree (C4)	321	658
Painted metal sheets (C5)	201	690
Bare soil (C6)	532	2697
Bitumen (C7)	135	635
Self-Blocking Bricks (C8)	326	2698
Shadow (C9)	30	352
Total Samples	3495	16580

Table S4. Error matrix using the MNF-nCCRE_{mRMR} for the IP dataset.

[illegible]

