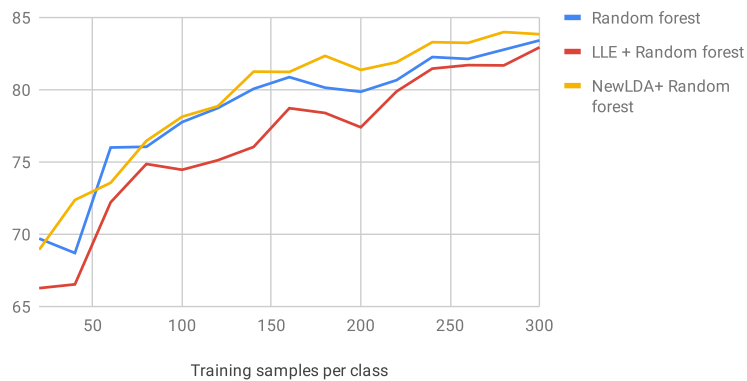


HSI Pixel classification algorithm accuracy for Pavia University Dataset

Training samples	DNN	CNN	Decision tree	SVM	Random forest	LLE + Random forest	NewLDA+ Random forest	Umbrella
20	62.08	68.95	58.57	66.21	69.7	66.27	68.93	75
40	69.29	73.38	63.96	44.03	68.7	66.53	72.37	77
60	71.64	74.99	67.7	59.12	76	72.21	73.56	79
80	82.3	76.45	70.28	62.3	76.05	74.86	76.46	81
100	81.57	75.02	71.37	63.11	77.76	74.46	78.13	84
120	78.06	77.13	73.27	58.33	78.73	75.12	78.86	86
140	80.64	80.99	74.24	61.08	80.06	76.04	81.25	86.5
160	83.08	81.84	75.7	61.15	80.87	78.72	81.23	87
180	86.86	86.16	76.52	57.48	80.14	78.39	82.34	87.2
200	88.76	87.26	73.73	56.99	79.86	77.4	81.37	87.6
220	90.32	89.74	76.1	57.22	80.66	79.88	81.9	88
240	90.7	91.64	76.37	57.51	82.26	81.46	83.29	88.8
260	91.71	92.53	77.78	58.74	82.13	81.7	83.24	89
280	92.03	93.15	77.33	58.94	82.77	81.68	83.99	89.2
300	91.25	92.8	77.94	59.39	83.41	82.93	83.84	89.7

Random forest, LLE + Random forest and NewLDA+ Random forest



Training size	Epochs
<100	240
>100	500
>200	1000

