

Overlap : 0.1 ~ 0.9 取最大值

P = 10	K = 3									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	87.13	72.01	72.86	79.87	79.11	77.75	77.67	92.00	92.55	93.13
MI-F	50.34	53.17	46.63	53.38	56.56	57.66	55.69	50.69	60.56	52.87
MI-V	77.15	58.32	70.87	74.68	73.98	75.89	75.63	77.66	82.83	78.76
OPTDIGITS	94.57	92.35	91.57	88.79	90.51	95.05	95.05	99.63	99.65	97.78
PENDIGITS	99.56	91.35	98.14	96.66	96.48	96.81	96.61	99.95	99.91	99.16
SATELLITE	51.05	68.78	72.70	69.55	73.21	79.62	76.46	68.73	81.95	78.37
SHUTTLE	39.34	27.95	99.83	96.44	95.66	95.39	86.07	96.93	79.94	99.77
THYROID	71.36	78.80	89.73	93.17	91.42	89.89	91.14	87.98	83.29	90.61
P = 10	K = 6									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	87.13	63.74	67.43	67.40	67.01	67.03	66.48	93.69	86.56	95.02
MI-F	50.34	40.91	46.41	50.54	50.13	51.64	51.48	51.79	56.29	53.52
MI-V	77.15	59.61	69.25	72.98	72.78	74.34	73.45	85.70	83.38	86.24
OPTDIGITS	94.57	83.87	88.23	86.33	82.19	93.19	91.91	99.54	99.91	99.74
PENDIGITS	99.56	84.27	85.52	81.16	83.08	81.96	80.43	99.94	99.58	99.90
SATELLITE	51.05	87.63	84.74	74.51	76.67	77.80	77.74	76.33	79.53	79.76
SHUTTLE	39.34	91.90	93.58	98.85	98.97	98.62	99.55	98.49	99.53	99.42
THYROID	71.36	84.26	86.74	89.06	89.46	89.95	85.11	85.19	92.65	91.92
P = 10	K = 9									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	87.13	62.48	63.57	63.40	62.58	62.22	61.89	93.94	95.40	95.80
MI-F	50.34	48.33	46.24	48.08	48.16	47.61	48.04	50.01	62.55	57.38
MI-V	77.15	58.47	68.80	73.96	73.30	72.55	73.31	85.38	87.06	83.83
OPTDIGITS	94.57	85.87	84.05	81.22	78.92	81.87	80.43	99.03	100.00	99.30
PENDIGITS	99.56	79.58	78.23	76.47	77.47	70.41	69.81	99.86	100.00	100.00
SATELLITE	51.05	92.06	95.39	84.93	86.68	85.95	87.75	73.95	87.46	84.78
SHUTTLE	39.34	99.43	98.68	99.49	99.68	99.53	99.19	99.53	99.73	99.76
THYROID	71.36	82.55	90.18	92.48	92.38	92.66	94.82	91.02	97.82	95.83

Overlap : 0.1 ~ 0.9 取最大值

P = 30	K = 3									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	78.33	67.27	68.20	68.54	67.32	67.02	66.94	83.78	88.66	90.03
MI-F	46.54	45.40	41.06	52.20	50.56	51.85	53.28	44.95	59.46	50.70
MI-V	64.10	65.18	63.21	68.16	67.74	69.27	70.19	67.18	76.68	71.20
OPTDIGITS	68.44	83.23	70.39	73.21	70.86	78.56	78.59	66.37	81.27	73.67
PENDIGITS	53.95	81.84	84.95	85.68	85.55	85.26	85.64	76.11	71.78	72.29
SATELLITE	45.64	59.78	69.49	66.02	65.15	67.89	68.32	63.48	74.27	67.81
SHUTTLE	90.22	94.03	94.55	79.47	88.20	86.87	63.67	86.95	92.00	88.38
THYROID	70.09	68.95	80.55	86.61	87.19	85.33	86.53	95.25	87.53	86.82
P = 30	K = 6									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	78.33	61.21	64.02	62.80	62.42	61.85	60.73	86.85	89.54	91.24
MI-F	46.54	41.56	42.71	48.51	48.64	51.00	51.86	46.53	57.81	51.86
MI-V	64.10	62.71	63.82	69.22	68.41	69.83	69.13	70.72	75.29	72.04
OPTDIGITS	68.44	71.23	77.13	74.14	73.20	77.17	74.75	80.97	84.62	80.39
PENDIGITS	53.95	73.88	77.50	74.25	79.08	67.47	69.44	90.73	89.06	87.98
SATELLITE	45.64	85.43	83.59	76.69	76.54	79.19	78.27	67.14	80.04	71.83
SHUTTLE	90.22	93.09	76.23	78.40	84.54	97.04	88.89	87.14	89.42	86.69
THYROID	70.09	81.17	77.64	79.28	80.16	80.86	80.00	86.12	85.89	84.59
P = 30	K = 9									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	78.33	59.64	58.84	58.21	59.44	57.89	58.02	88.82	92.41	92.87
MI-F	46.54	44.41	43.83	46.90	46.94	47.20	47.33	44.89	57.51	53.87
MI-V	64.10	65.59	64.31	66.45	66.00	65.91	66.91	71.83	79.19	73.70
OPTDIGITS	68.44	71.18	83.92	83.87	81.21	81.48	83.99	86.43	77.61	85.50
PENDIGITS	53.95	76.88	71.03	73.63	76.83	74.74	66.47	92.34	90.85	91.28
SATELLITE	45.64	88.48	90.47	81.30	82.05	80.80	83.38	64.34	86.92	79.97
SHUTTLE	90.22	98.87	85.12	89.84	95.61	93.32	97.79	93.44	98.18	96.37
THYROID	70.09	80.17	80.68	77.49	81.63	80.82	80.47	87.08	93.11	94.17

P = 50	K = 3									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	70.10	62.44	63.72	68.07	67.24	66.36	67.09	81.26	79.97	83.46
MI-F	47.19	41.14	41.55	53.87	50.27	53.01	52.44	43.78	63.43	53.37
MI-V	59.85	63.58	58.99	66.49	65.28	66.87	67.33	64.64	74.75	67.42
OPTDIGITS	50.49	68.98	69.92	53.55	63.31	62.70	63.37	56.78	65.97	54.58
PENDIGITS	25.20	57.82	77.47	68.28	69.64	66.37	69.41	46.19	42.28	42.98
SATELLITE	49.94	62.47	62.99	61.35	60.33	63.14	63.27	57.39	67.62	63.97
SHUTTLE	86.11	80.48	86.99	68.59	84.57	69.04	86.35	86.13	71.95	85.08
THYROID	66.38	72.20	79.62	85.50	84.48	84.01	84.62	79.39	83.46	83.52
P = 50	K = 6									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	70.10	61.22	62.66	61.89	60.23	61.46	60.55	83.23	82.91	86.13
MI-F	47.19	44.20	42.21	47.47	51.38	47.25	49.40	41.90	60.85	52.19
MI-V	59.85	47.32	61.51	64.56	64.29	64.27	65.37	66.68	73.61	70.22
OPTDIGITS	50.49	71.13	70.76	71.51	75.59	77.26	72.82	67.35	75.95	63.64
PENDIGITS	25.20	64.22	86.28	82.28	84.03	81..78	81.17	78.16	84.16	87.15
SATELLITE	49.94	73.69	80.21	67.53	70.03	70.07	72.14	60.39	77.73	67.86
SHUTTLE	86.11	98.51	68.33	82.60	84.93	93.00	84.33	80.18	79.08	86.12
THYROID	66.38	81.59	85.14	86.97	89.14	88.78	84.60	85.73	92.31	94.08
P = 50	K = 9									
Dataset	Origin	Kmeans	Random	MLP 64	MLP 32	MLP+F 64	MLP+F 32	Overlap	MLP+F 32 O	MLP O
HRSS	70.10	57.42	57.24	57.03	62.86	62.73	62.81	83.45	82.93	85.97
MI-F	47.19	40.00	41.47	44.02	43.18	43.70	43.58	41.27	52.77	50.12
MI-V	59.85	54.26	61.99	62.60	63.69	63.24	63.94	67.43	73.21	69.46
OPTDIGITS	50.49	74.38	70.68	70.55	64.69	69.77	69.24	68.79	86.84	71.09
PENDIGITS	25.20	70.58	69.10	66.59	70.18	70.55	61.76	73.54	83.91	91.51
SATELLITE	49.94	81.01	86.85	76.49	78.49	78.85	79.85	61.83.	72.55	63.88
SHUTTLE	86.11	81.68	76.78	83.64	85.74	83.23	82.05	89.51	81.66	90.34
THYROID	66.38	76.17	79.25	76.91	76.30	68.99	65.41	89.15	90.21	91.41

MLP+Feature 64

	P = 10			P = 30			P = 50		
Dataset	K = 3	K = 6	K = 9	K = 3	K = 6	K = 9	K = 3	K = 6	K = 9
HRSS	77.75	67.03	62.22	67.02	61.85	57.89	66.36	61.46	62.73
MI-F	57.66	51.64	47.61	51.85	51.00	47.20	53.01	47.25	43.70
MI-V	75.89	74.34	72.55	69.27	69.83	65.91	66.87	64.27	63.24
OPTDIGITS	95.05	93.19	81.87	78.56	77.17	81.48	62.70	77.26	69.77
PENDIGITS	96.81	81.96	70.41	85.26	67.47	74.74	66.37	81..78	70.55
SATELLITE	79.62	77.80	85.95	67.89	79.19	80.80	63.14	70.07	78.85
SHUTTLE	95.39	98.62	99.53	86.87	97.04	93.32	69.04	93.00	83.23
THYROID	89.89	89.95	92.66	85.33	80.86	80.82	84.01	88.78	68.99

MLP+Feature 32

	P = 10			P = 30			P = 50		
Dataset	K = 3	K = 6	K = 9	K = 3	K = 6	K = 9	K = 3	K = 6	K = 9
HRSS	77.67	66.48	61.89	66.94	60.73	58.02	67.09	60.55	62.81
MI-F	55.69	51.48	48.04	53.28	51.86	47.33	52.44	49.40	43.58
MI-V	75.63	73.45	73.31	70.19	69.13	66.91	67.33	65.37	63.94
OPTDIGITS	95.05	91.91	80.43	78.59	74.75	83.99	63.37	72.82	69.24
PENDIGITS	96.61	80.43	69.81	85.64	69.44	66.47	69.41	81.17	61.76
SATELLITE	76.46	77.74	87.75	68.32	78.27	83.38	63.27	72.14	79.85
SHUTTLE	86.07	99.55	99.19	63.67	88.89	97.79	86.35	84.33	82.05
THYROID	91.14	85.11	94.82	86.53	80.00	80.47	84.62	84.60	65.41