实验结果

**表格中的准确率A：是指。在一般集成中JCUED03输出的准确率（也就是老师您给的程序那个集成之后的准确率）如果跟这个准确率比较，一般都会有至少4个百分点的提升。**

**我之前的比较在选出的数据集的这个基础上，用最简单的投票算法计算出来的准确率进行对比，一般只有0.3%左右的提升。**

**参考数据应该选择哪个呢？这点比较迷惑。**

实验数据一览表格

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 数据集 | 错误率 | 准确率  A | 分类器个数 | 训练集准确率 | 测试集准确率  B | 选择出的分类器个数 | B-A |
| GRF\_J\_UNIWARD\_01\_QF95 | 0.4748 | 0.5252 | 69 |  |  |  |  |
| GRF\_J\_UNIWARD\_03\_QF95 | 0.3562 | 0.6438 | 111 | 0.6883 | 0.6883 | 65 | 0.0445（4.45%） |
| GRF\_J\_UNIWARD\_05\_QF95 | 0.2051 | 0.7949 | 121 |  |  |  |  |
| GRF\_JC\_UED\_01\_QF95 | 0.4244 | 0.5756 | 79 |  |  |  |  |
| GRF\_JC\_UED\_03\_QF95 | 0.2414 | 0.7586 | 107 | 0.7993 | 0.7993 | 89 | 0.0407（4.07%） |
| GRF\_JC\_UED\_05\_QF95 | 0.0836 | 0.9164 | 113 |  |  |  |  |
| GRF\_UERD\_01\_QF95 | 0.4529 | 0.5471 | 73 |  |  |  |  |
| GRF\_UERD\_03\_QF95 | 0.2975 | 0.7025 | 133 |  |  |  |  |
| GRF\_UERD\_05\_QF95 | 0.1532 | 0.8468 | 145 |  |  |  |  |
| maxSRMd2\_HILL\_01\_HILL\_01 | 0.3727 | 0.6273 | 115 |  |  |  |  |
| maxSRMd2\_HILL\_03\_HILL\_03 | 0.2580 | 0.7420 | 113 |  |  |  |  |
| maxSRMd2\_HILL\_05\_HILL\_05 | 0.1833 | 0.8167 | 109 |  |  |  |  |
| maxSRMd2\_S\_UNIWARD\_01 | 0.3666 | 0.6334 | 131 |  |  |  |  |
| maxSRMd2\_S\_UNIWARD\_03 | 0.2405 | 0.7595 | 109 |  |  |  |  |
| maxSRMd2\_S\_UNIWARD\_05 | 0.1586 | 0.8414 | 93 |  |  |  |  |

JCUED03

total\_train\_acc= 0.7967

total\_test\_acc= 0.7967

**这两个数据，是我自己用简单投票法计算出来的准确率。老师您给的程序跑出来的准确率是0.7586。**

Goal lists====> [ 74 88 96 49 79 21 15 13 34 107 66 20 105 24 27 22 85 84 72 86 63 98 64 91 12 6 55 57 32 78 38 30 59 23 103 75 93 28 99 89 35 83 67 56 77 104 70 25 101 51 106 81 90 69 4 95 80 68 50 29 41 65 47 48 97 18 33 45 60 3 8 37 53 73 46 16 31 102 43 11 40 82 61 14 92 7 10 26 19]

Acc=====> 0.7993

length====> 89

GOALACC = 0.7989

choose train acc = 0.7993 total\_train\_acc= 0.7967

choose test acc = 0.7993 total\_test\_acc= 0.7967

JUNIWARD03

total\_train\_acc= 0.6846

total\_test\_acc= 0.6846

**这两个数据，是我自己用简单投票法计算出来的准确率。老师您给的程序跑出来的准确率是0.6438。**

Goal lists====> [ 72 2 48 41 85 1 26 19 38 46 34 87 54 69 7 32 90 30 15 86 9 71 101 92 40 108 56 75 83 94 22 93 45 64 44 80 10 89 47 76 24 31 66 23 53 20 65 77 79 17 13 39 37 97 73 104 11 28 36 63 42 43 70 96 21]

Acc=====> 0.6883

length====> 65

GOALACC = 0.6876

choose train acc = 0.6883 total\_train\_acc= 0.6846

choose test acc = 0.6883 total\_test\_acc= 0.6846

粗数据：

% load('E:\hudandan\1\GRF\_J\_UNIWARD\_01\_QF95.mat');

%optimal d\_sub 800 : OOB 0.1510 : L 69 :Testing error: 0.4748

%load('E:\hudandan\1\GRF\_J\_UNIWARD\_03\_QF95.mat');

%optimal d\_sub 1400 : OOB 0.1510 : L 111 :Testing error: 0.3562

%load('E:\hudandan\1\GRF\_J\_UNIWARD\_05\_QF95.mat');

%optimal d\_sub 1400 : OOB 0.1510 : L 121 :Testing error: 0.2051

% load('E:\hudandan\1\GRF\_JC\_UED\_01\_QF95.mat');

%optimal d\_sub 1000 : OOB 0.1510 : L 79 :Testing error: 0.4244

%load('E:\hudandan\1\GRF\_JC\_UED\_03\_QF95.mat');

%optimal d\_sub 1200 : OOB 0.1510 : L 107 :Testing error: 0.2414

%load('E:\hudandan\1\GRF\_JC\_UED\_05\_QF95.mat');

%optimal d\_sub 1600 : OOB 0.1510 : L 113 :Testing error: 0.0836

% load('E:\hudandan\1\GRF\_UERD\_01\_QF95.mat');

%optimal d\_sub 1000 : OOB 0.1510 : L 73 :Testing error: 0.4529

% load('E:\hudandan\1\GRF\_UERD\_03\_QF95.mat');

%optimal d\_sub 1600 : OOB 0.1510 : L 133 :Testing error: 0.2975

% load('E:\hudandan\1\GRF\_UERD\_05\_QF95.mat');

%optimal d\_sub 2200 : OOB 0.1510 : L 145 :Testing error: 0.1532

% load('E:\hudandan\2\maxSRMd2\_HILL\_01\_HILL\_01.mat');

% optimal d\_sub 1000 : OOB 0.3705 : L 115 : T 106.1 sec Testing error: 0.3727

% load('E:\hudandan\2\maxSRMd2\_HILL\_03\_HILL\_03.mat');

%optimal d\_sub 1200 : OOB 0.2582 : L 113 : T 97.1 sec Testing error: 0.2580

% load('E:\hudandan\2\maxSRMd2\_HILL\_05\_HILL\_05.mat');

%optimal d\_sub 1000 : OOB 0.1798 : L 109 : T 110.3 sec Testing error: 0.1833

load('E:\hudandan\2\maxSRMd2\_S\_UNIWARD\_01\_S\_UNIWARD\_01.mat');

% optimal d\_sub 1200 : OOB 0.3643 : L 131 : T 150.4 sec Testing error: 0.3666

% load('E:\hudandan\2\maxSRMd2\_S\_UNIWARD\_03\_S\_UNIWARD\_03.mat');

% optimal d\_sub 1400 : OOB 0.2344 : L 109 : T 177.3 sec Testing error: 0.2405

% load('E:\hudandan\2\maxSRMd2\_S\_UNIWARD\_05\_S\_UNIWARD\_05.mat');

% optimal d\_sub 1600 : OOB 0.1558 : L 93 : T 186.0 sec Testing error: 0.1586