Mutli-Subject

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| method | 1+2→3 | 1+2→4 | 1+2→5 | 1+2→6 | 1+2→7 | 1+2→8 | average |
| 1NN | 0.5129 | 0.5690 | 0.7784 | 0.7057 | 0.4630 | 0.4211 | 0.5750 |
| PCA | 0.5534 | 0.6787 | 0.8584 | 0.7295 | 0.4862 | 0.4953 | 0.6335 |
| LDA | 0.6351 | 0.6411 | 0.7935 | 0.7852 | 0.5029 | 0.5994 | 0.6596 |
| DRCA | 0.5720 | 0.4609 | 0.6725 | 0.6733 | 0.4293 | 0.5551 | 0.5619 |
| DDRCA | 0.6000 | 0.7539 | 0.8232 | 0.8295 | 0.6612 | 0.5316 | 0.6999 |
| MDMR | 0.6710 | 0.6797 | 0.8551 | 0.6932 | 0.4475 | 0.6732 | 0.6700 |
| MCSP | 0.6538 | 0.8359 | 0.8560 | 0.7841 | 0.6486 | 0.6693 | **0.7380** |
| MCSP-SSS | 0.6796 | 0.8359 | 0.8696 | 0.8722 | 0.6721 | 0.6929 | **0.7704** |

Trade-off parameters of MCSP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| trade-off | 1+2→3 | 1+2→4 | 1+2→5 | 1+2→6 | 1+2→7 | 1+2→8 |
| α | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.00011 | 0.0001 |
| β | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| γ | 0.1 | 0.001 | 0.0001 | 0.01 | 0.001 | 0.001 |
| δ | 100.0 | 10.0 | 1 | 10.0 | 100.0 | 10000.0 |
| d | 11 | 4 | 5 | 4 | 3 | 3 |

Mutil-Batch

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| method | 1+2→3 | 1+2→4 | 1+2→5 | 1+2→6 | 1+2→7 | 1+2→8 | 1+2→9 | 1+2→10 | average |
| NN | 0.8045 | 0.4907 | 0.6599 | 0.5683 | 0.5115 | 0.3095 | 0. 3766 | 0.4567 | 0.5222 |
| PCA | 0.8045 | 0.4907 | 0.6751 | 0.5683 | 0.5256 | 0.4183 | 0.3787 | 0.4603 | 0.5402 |
| LDA | 0.4515 | 0.2236 | 0.4772 | 0.4713 | 0.2845 | 0.5986 | 0.1383 | 0.1256 | 0.3463 |
| DRCA | 0.8707 | 0.5777 | 0.5888 | 0.7913 | 0.4805 | 0.5748 | 0.3936 | 0.4400 | 0.5918 |
| D-DRCA | 0.8953 | 0.6770 | 0.7411 | 0.7313 | 0.6438 | 0.8027 | 0.6978 | 0.4300 | 0.7023 |
| MDMR | 0.8493 | 0.6149 | 0.7208 | 0.6965 | 0.5782 | 0.4728 | 0.5787 | 0.4633 | 0.6218 |
| MCSP | 0.9339 | 0.5692 | 0.8607 | 0.8740 | 0.7427 | 0.7203 | 0.7394 | 0.5569 | **0.7499** |
| MCSP-SSS | 0.9370 | 0.7538 | 0.8860 | 0.9022 | 0.7524 | 0.7966 | 0.7553 | 0.6011 | **0.7981** |

Trade-off parameters of MCSP

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| trade-off | 1+2→3 | 1+2→4 | 1+2→5 | 1+2→6 | 1+2→7 | 1+2→8 | 1+2→9 | 1+2→10 |
| α | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| β | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| γ | 0.0001 | 0.001 | 0.0001 | 0.0001 | 0.0001 | 0.1 | 0.1 | 0.001 |
| δ | 10.0 | 100 | 1000 | 10 | 100 | 100.0 | 100.0 | 100 |
| d | 108 | 127 | 124 | 119 | 112 | 3 | 60 | 116 |

To be continued…