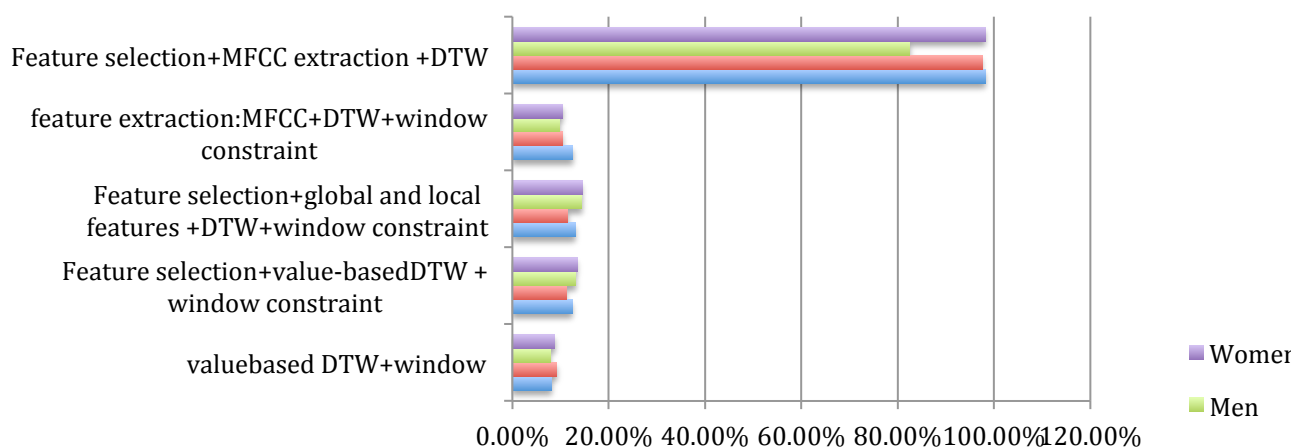
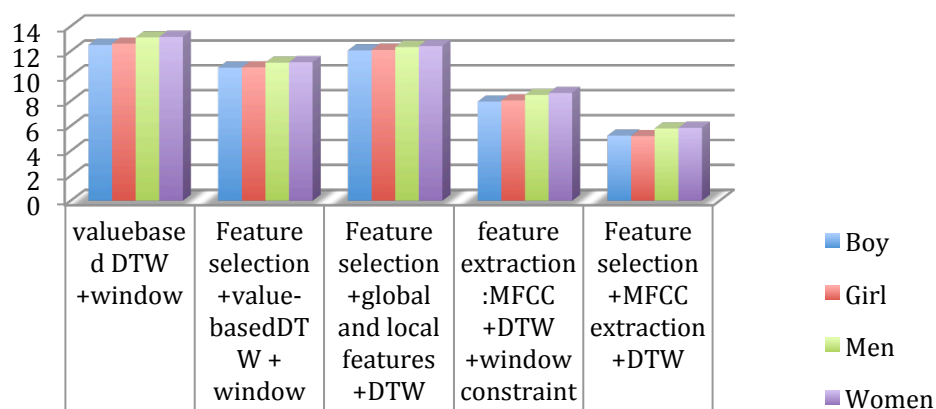


## Accuracy



|       | valuebased DTW +window | Feature selection+value-basedDTW + window constraint | Feature selection+global and local features +DTW +window constraint | feature extraction:MFCC +DTW+window constraint | Feature selection+MFCC extraction +DTW |
|-------|------------------------|--|---|--|--|
| Women | 8.80%                  | 13.42%   | 14.50%  | 10.46%   | 98.15%                                 |
| Men   | 7.90%                  | 13.15%   | 14.40%  | 9.86%  | 82.51%                                 |
| Girl  | 9.19%                  | 11.18%   | 11.50%  | 10.48%   | 97.53%                                 |
| Boy   | 8.20%                  | 12.42%   | 13.10%  | 12.50%   | 98.15%                                 |

## Log(Time)



|       | valuebase d DTW +window | Feature selection +value-basedDT W + window constraint | Feature selection +global and local features +DTW +window constraint | feature extraction :MFCC +DTW +window constraint | Feature selection +MFCC extraction +DTW |
|-------|-------------------------|--|--|--|---|
| Boy   | 12.5                    | 10.67  | 12.0599  | 7.9441   | 5.22                                    |
| Girl  | 12.6                    | 10.69  | 12.1007  | 8.0459   | 5.18                                    |
| Men   | 13.1                    | 11.07  | 12.3318  | 8.4799   | 5.79                                    |
| Women | 13.14                   | 11.11  | 12.4082  | 8.6408   | 5.84                                    |

