|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Original features | | 40 PCs | | 57 PCs | |
| Original data | Filtered data | Original data | Filtered data | Original data | Filtered data |
| Jogging | 0.025:0.005 | 0.018:0.004 | 0.134:0.027 | 0.152:0.030 | 0.187:0.037 | 0.237:0.047 |
| Running | 0.078:0.016 | 0.056:0.011 | 0.135:0.027 | 0.209:0.041 | 0.527:0.104 | 0.562:0.112 |
| Walking down-stairs | 0.032:0.006 | 0.02:0.004 | 0.22:0.044 | 0.303:0.06 | 0.453:0.085 | 0.48:0.089 |
| Walking up-stairs | 0.031:0.005 | 0.029:0.005 | 0.272:0.053 | 0.343:0.067 | 0.406:0.074 | 0.393:0.072 |
| Walking | 0.013:0.003 | 0.011:0.002 | 0.148:0.029 | 0.188:0.037 | 0.183:0.037 | 0.205:0.041 |

Таблица . Identification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Original features | | 40 PCs | | 57 PCs | |
| Original data | Filtered data | Original data | Filtered data | Original data | Filtered data |
| Jogging | 0.51:0.292 | 0.518:0.268 | 0.538:0.405 | 0.54:0.412 | 0.443:0.36 | 0.491:0.36 |
| Running | 0.512:0.28 | 0.504:0.261 | 0.494:0.583 | 0.45:0.567 | 0.412:0.492 | 0.497:0.531 |
| Walking down-stairs | 0.507:0.333 | 0.494:0.31 | 0.445:0.516 | 0.496:0.511 | 0.437:0.482 | 0.406:0.474 |
| Walking up-stairs | 0.515:0.398 | 0.51:0.371 | 0.512:0.511 | 0.474:0.549 | 0.424:0.483 | 0.422:0.473 |
| Walking | 0.511:0.306 | 0.531:0.24 | 0.468:0.529 | 0.411:0.539 | 0.464:0.508 | 0.461:0.491 |

Таблица 2. Authentication

|  |  |  |
| --- | --- | --- |
|  | Original data | Filtered data |
| Jogging | 0.097:0.703 | 0.114:0.694 |
| Running | 0.151:0.651 | 0.168:0.669 |
| Walking down-stairs | 0.095:0.737 | 0.134:0.625 |
| Walking up-stairs | 0.12:0.739 | 0.129:0.626 |
| Walking | 0.105:0.807 | 0.11:0.49 |

Таблица . k=2 (SAEs)

|  |  |  |
| --- | --- | --- |
|  | Original data | Filtered data |
| Jogging | 0.36:0.51 | 0.292:0.499 |
| Running | 0.171:0.409 | 0.135:0.363 |
| Walking down-stairs | 0.147:0.357 | 0.126:0.31 |
| Walking up-stairs | 0.144:0.442 | 0.187:0.434 |
| Walking | 0.293:0.492 | 0.156:0.458 |

Таблица . k=2 (DAEs)

|  |  |  |
| --- | --- | --- |
|  | Original data | Filtered data |
| Jogging | 0.106:0.669 | 0.115:0.751 |
| Running | 0.121:0.626 | 0.113:0.518 |
| Walking down-stairs | 0.117:0.604 | 0.102:0.551 |
| Walking up-stairs | 0.125:0.568 | 0.13:0.4 |
| Walking | 0.102:0.6 | 0.129:0.658 |

Таблица . k=4 (SAEs)

|  |  |  |
| --- | --- | --- |
|  | Original data | Filtered data |
| Jogging | 0.123:0.253 | 0.128:0.271 |
| Running | 0.143:0.056 | 0.161:0.04 |
| Walking down-stairs | 0.16:0.045 | 0.175:0.04 |
| Walking up-stairs | 0.142:0.04 | 0.176:0.04 |
| Walking | 0.13:0.27 | 0.12:0.246 |

Таблица . k=4 (DAEs)