|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 彎曲  （Flexion） | 伸展  （Extension） | 往內反掌  （Pronation） | 往外反掌  （Supination） |
| RMS-only | 3.751 | 3.701 | 7.054 | 6.817 |
| RMS-nICA | 4.517 | 4.286 | 5.775 | 6.071 |
| RMS-TDSEP | 3.533 | 3.443 | 5.557 | 5.555 |

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| --- | --- | --- | --- | --- |
|  | 彎曲  （Flexion） | 伸展  （Extension） | 往內反掌  （Pronation） | 往外反掌  （Supination） |
| RMS-only | 3.258 | 3.203 | 6.253 | 6.601 |
| RMS-nICA | 3.538 | 3.449 | 5.837 | 6.881 |
| RMS-TDSEP | 3.309 | 3.180 | 5.831 | 6.304 |

[1]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 彎曲  （Flexion） | 伸展  （Extension） | 往內反掌  （Pronation） | 往外反掌  （Supination） |
| RMS-only | 3.258 | 3.203 | 6.253 | 6.601 |
| RMS-nICA | 3.538 | 3.449 | 5.837 | 6.881 |
| RMS-TDSEP | 3.309 | 3.180 | 5.831 | 6.304 |
|  |  |  |  |  |

[2]

[1] G. R. Naik, D. K. Kumar, H. Weghorn, and M. Palaniswami, “Subtle Hand Gesture Identification for HCI Using Temporal Decorrelation Source Separation BSS of Surface EMG,” in *9th Biennial Conference of the Australian Pattern Recognition Society on Digital Image Computing Techniques and Applications (DICTA 2007)*, 2007, pp. 30–37.

[2] K. Nazarpour, A. H. Al-Timemy, G. Bugmann, and A. Jackson, “A note on the probability distribution function of the surface electromyogram signal,” *Brain Res. Bull.*, vol. 90, pp. 88–91, Jan. 2013.

[3] S. Muceli, Ning Jiang, and D. Farina, “Multichannel surface EMG based estimation of bilateral hand kinematics during movements at multiple degrees of freedom,” in *2010 Annual International Conference of the IEEE Engineering in Medicine and Biology*, Buenos Aires, 2010, pp. 6066–6069.

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| --- | --- | --- | --- | --- |
|  | 彎曲  （Flexion） | 伸展  （Extension） | 往內反掌  （Pronation） | 往外反掌  （Supination） |
| RMS-only | 4.26 | 4.16 | 11.89 | 11.85 |
| RMS-nICA | 4.26 | 4.11 | 9.08 | 9.60 |
| RMS-TDSEP | 4.28 | 4.13 | 8.66 | 9.00 |
| RMS-only [1] | 10.42 | 8.23 | 13.09 | 16.53 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 彎曲  （Flexion） | 伸展  （Extension） | 往內反掌  （Pronation） | 往外反掌  （Supination） |
| RMS-only |  |  |  |  |
| RMS-nICA |  |  |  |  |
| RMS-TDSEP |  |  |  |  |
| REC-LPF [2] | 82.7 ± 2.9% | 82.7 ± 2.9% | 76.6 ± 11.8% | 76.6 ± 11.8% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 彎曲  （Flexion） | 伸展  （Extension） | 往內反掌  （Pronation） | 往外反掌  （Supination） |
| RMS-only | 3.76 | 3.62 | 6.87 | 7.38 |
| RMS-nICA | 4.28 | 4.12 | 6.00 | 6.49 |
| RMS-TDSEP | 3.87 | 3.74 | 5.88 | 6.37 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 彎曲  （Flexion） | 伸展  （Extension） | 往內反掌  （Pronation） | 往外反掌  （Supination） |
| RMS-only | 4.26 | 4.16 | 11.89 | 11.85 |
| RMS-nICA | 4.26 | 4.11 | 9.08 | 9.60 |
| RMS-TDSEP | 4.28 | 4.13 | 8.66 | 9.00 |