This data is generated according to the paper (Honghu Xue, Rebecca Herzog, Till M Berger, Tobias Bäumer, Anne Weissbach, Elmar Rueckert , ‘Using Probabilistic Movement Primitives in analyzing human motion differences under Transcranial Current Stimulation’)

The file includes the post-processed trajectory data for each subject. We present 10 subjects as mentioned in the paper.

Each .npy file features a numpy array of dimension (2,2,2,4,4,6,100,2).

The 0th dimension refers left-right or anterior-posterior movement, 0: left-right direction, 1: anterior-posterior direction

The 1st dimension refers to rapid movement or rhythmic movement, 0: rhythmic, 1: rapid

The 2nd dimension refers to left/right hand, 0: Right hand, 1: Left hand

The 3rd dimension refers stimulation approach the order is shuffled for each participant and needs to be reordered according to following or the excel file. 0: Day 1, 1: Day 2 2: Day 3, 3: Day 4

The 4th dimension refers to post-stimulation phase, 0: Prae, 1: post 1, 2: post 2, 3: post 3

The 5th dimension refers to the 6-dimensional axes, 0: hand x-axis, 1: hand y-axis, 2: hand z-axis, 3: wrist x-axis, 4: wrist y-axis, 5: wrist z-axis

The 6th dimension refers to the number of discrete time points after time alignment, totally 100 points.

The 7th dimension refers to the number of single stroke of movement, altogether 20.

The 8th dimension is inward/outward movements. 0: inward, 1: outward

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| --- | --- | --- | --- | --- | --- |
| Num Pro | Day 1 | Day 2 | Day 3 | Day 4 |  |
| Pro001 | Sham | tACS | tRNS | tDCS |  |
| Pro002 | tACS | Sham | tRNS | tDCS |  |
| Pro004 | tDCS | Sham | tRNS | tACS |  |
| Pro007 | tRNS | tACS | tDCS | Sham |  |
| Pro008 | tDCS | Sham | tACS | tRNS |  |
| Pro009 | Sham | tDCS | tACS | tRNS |  |
| Pro011 | tACS | tRNS | tDCS | Sham |  |
| Pro013 | tDCS | tACS | Sham | tRNS |  |
| Pro015 | tACS | tRNS | Sham | tDCS |  |
| Pro019 | tACS | tDCS | Sham | tRNS |  |