

Supplementary Information

Head Motion Classification Using Thread-Based Sensor and Machine Learning Algorithm

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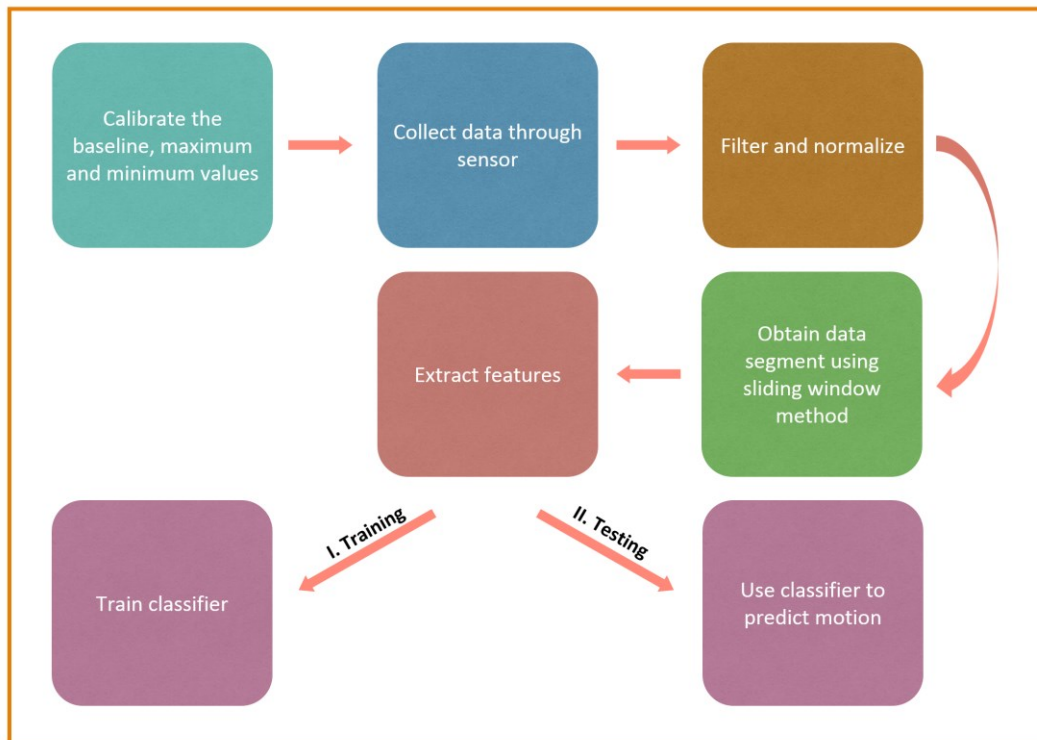


Figure S1. Flow chart of data processing.

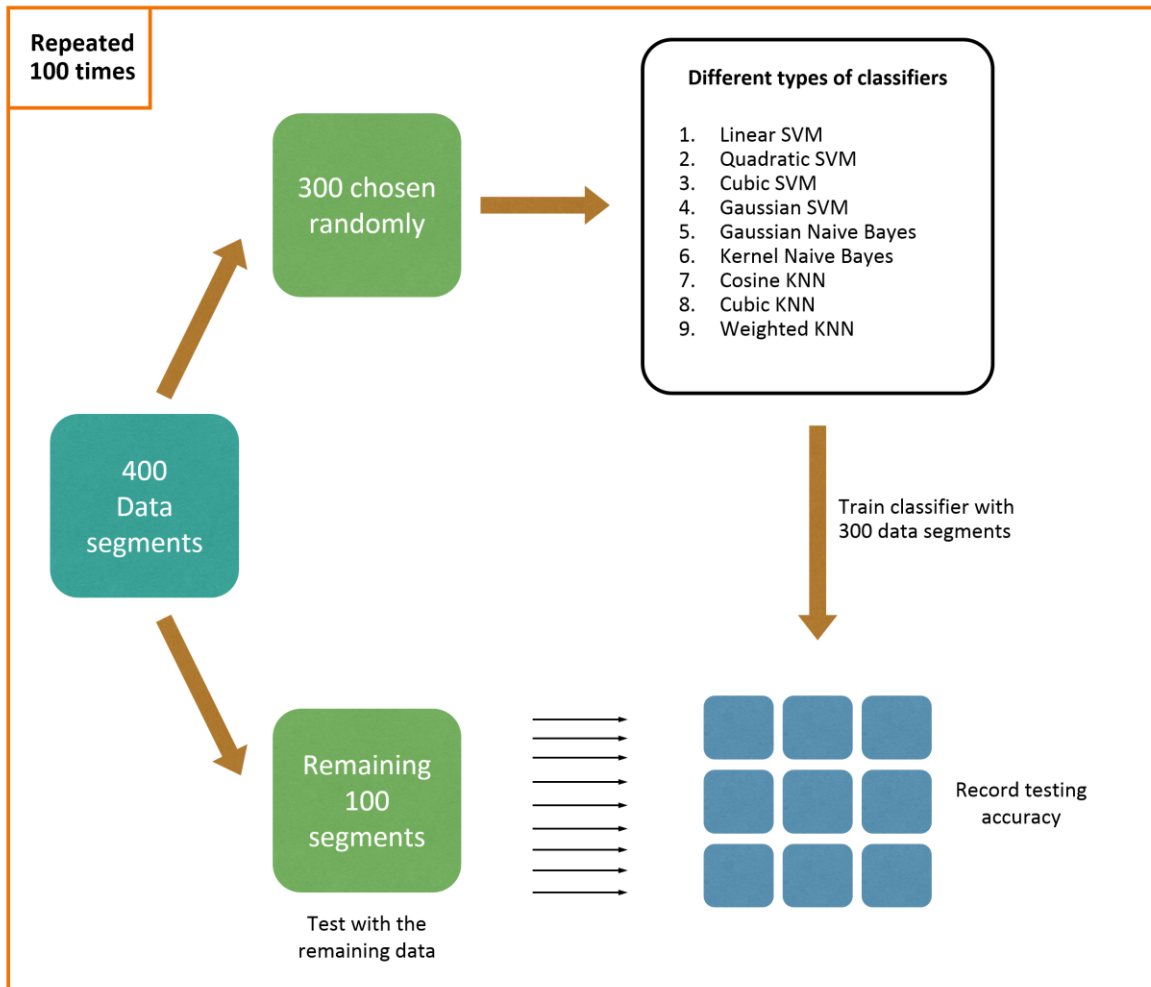


Figure S2. Flowchart of classifier testing and training process.

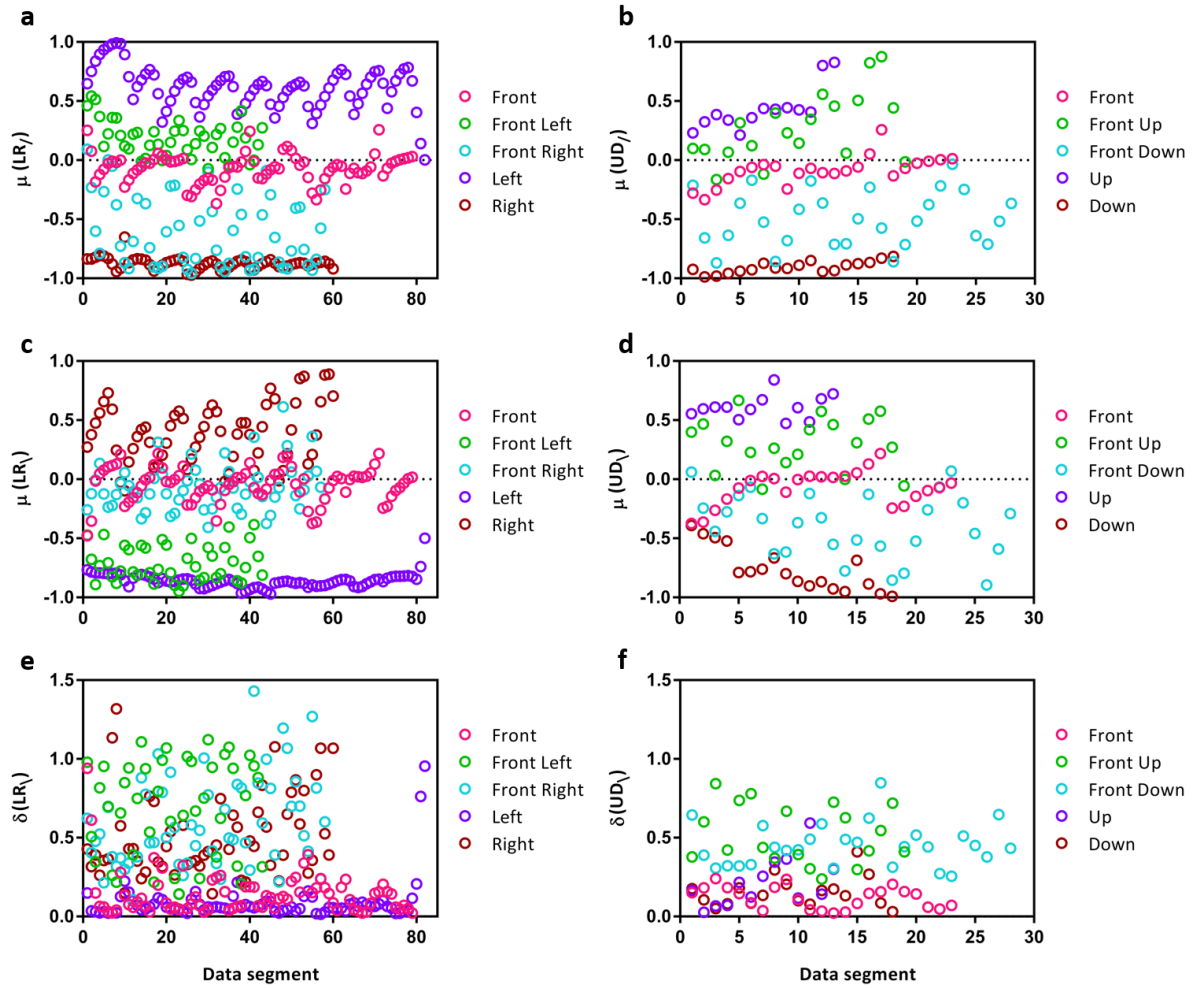


Figure S3. (a) Data segment mean horizontal motion range $\mu(LR_1)$ sensor (b) Data segment mean vertical motion range $\mu(UD_1)$ sensor (c) Data segment mean horizontal motion range $\mu(LR_2)$ sensor (d) Data segment mean vertical motion range $\mu(UD_2)$ sensor (e) Difference between maximum and minimum value for horizontal motion range $\delta(LR_2)$ sensor (f) Difference between maximum and minimum value for vertical motion range $\delta(UD_2)$ sensor.