

**S1 Table.** Per-subject ECG and EDA signal quality characteristics ( $N = 15$ ). Hard subjects (S2, S8, S14) are marked  $\star$ . SQR is the heuristic measure defined in Section 3.1 (Eq. 1); it is a descriptive characterisation.

| Subject | ECG Range (V)   | ECG SQR (dB) | EDA Range ( $\mu$ S) | EDA SQR (dB) | Hard    |
|---------|-----------------|--------------|----------------------|--------------|---------|
| S2      | [−1.500, 1.499] | 19.8         | [0.263, 7.577]       | 37.5         | $\star$ |
| S3      | [−1.500, 1.500] | 19.0         | [0.000, 16.365]      | 58.6         |         |
| S4      | [−1.499, 1.500] | 17.7         | [0.912, 5.508]       | 41.4         |         |
| S5      | [−1.499, 1.500] | 16.9         | [3.403, 12.735]      | 57.5         |         |
| S6      | [−0.714, 1.500] | 19.0         | [5.171, 12.254]      | 63.6         |         |
| S7      | [−1.164, 1.499] | 17.6         | [10.983, 22.411]     | 65.5         |         |
| S8      | [−1.440, 1.500] | 17.6         | [3.296, 5.718]       | 50.9         | $\star$ |
| S9      | [−1.500, 1.500] | 16.4         | [1.320, 4.242]       | 46.3         |         |
| S10     | [−1.460, 1.479] | 15.5         | [0.416, 2.258]       | 37.8         |         |
| S11     | [−0.879, 1.500] | 16.2         | [5.626, 8.167]       | 56.1         |         |
| S13     | [−1.050, 1.500] | 17.8         | [2.027, 6.635]       | 47.1         |         |
| S14     | [−1.499, 1.500] | 16.3         | [2.467, 3.262]       | 46.9         | $\star$ |
| S15     | [−1.257, 1.499] | 18.4         | [1.250, 4.318]       | 48.0         |         |
| S16     | [−1.401, 1.500] | 18.2         | [0.637, 5.500]       | 43.3         |         |
| S17     | [−1.258, 1.500] | 18.3         | [5.058, 8.211]       | 59.5         |         |
| Min     |                 | 15.5 (S10)   |                      | 37.5 (S2)    |         |
| Max     |                 | 19.8 (S2)    |                      | 65.5 (S7)    |         |
| Mean    |                 | 17.6         |                      | 51.3         |         |