

Supplementary material II, spindle characteristics for unseen expert

In this document we expose the material regarding the spindle characteristics from the study “Beyond the ground truth, XGBoost model applied to sleep spindle event detection”. This material is left out of the manuscript because of extension and clarity concerns but we consider it can give important insights with regards to the performance of our methodology.

Differently to the supplementary material I, in this document we compare the spindle characteristics of the automatic method to those of the expert that was not used for training and validation in MASS SS2.

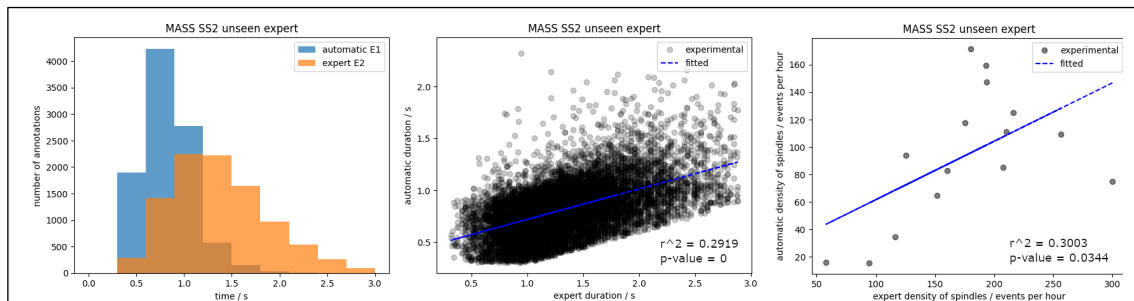


Figure 1. Spindle characteristics for MASS SS2 unseen expert. This data corresponds to the comparison of the automatic method trained and validated with E1 data and the annotations of E2. Left panel: spindle duration histogram. Central panel: spindle duration correlation for positive pairs. Right panel: spindle density correlation by subject.

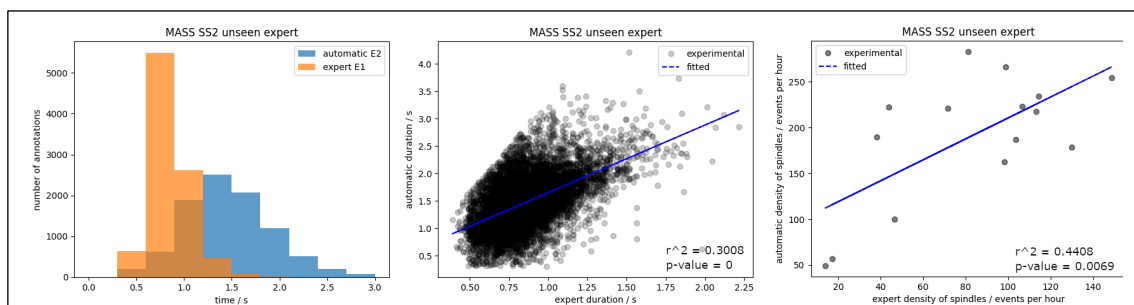


Figure 2. Spindle characteristics for MASS SS2 unseen expert. This data corresponds to the comparison of the automatic method trained and validated with E2 data and the annotations of E1. Left panel: spindle duration histogram. Central panel: spindle duration correlation for positive pairs. Right panel: spindle density correlation by subject.