EEG Preprocessing Flowchart

Raw EEG

Band-pass
0.5–45 Hz

Statistical Validation
(Permutation)

Notch
50/60 Hz

Burst Detection
(12-15 Hz)

ICA & Artifact
Rejection

Detrending

Channel
Interpolation

Baseline
Correction

Epoch Segmentation
(-30 s to 0 s)

Flowchart of the EEG preprocessing pipeline.