Supplemental Material 2: Classification results for hypothesis 2a

This supplemental material provides the normalized confusion matrices and posterior probabilities for all classification tasks performed using Naive Bayes (NB) and Logistic Regression (LR) when using all features (NB2a in Fig.1, LR2a in Fig.2) and when using automatic feature detection (NB2b in Fig.3, LR2b in Fig.4) .



(c) ASWS normalized confusion matrix



(d) ASWS posterior probabilities



(e) KSTS normalized confusion matrix



(g) KSWS normalized confusion matrix



(i) PS normalized confusion matrix



(k) HS normalized confusion matrix



(f) KSTS posterior probabilities



(h) KSWS posterior probabilities



(j) PS posterior probabilities



(l) HS posterior probabilities



(m) PC normalized confusion matrix



(o) HC normalized confusion matrix



(q) ${\cal PT}$ normalized confusion matrix



(s) HT normalized confusion matrix



(t) HT posterior probabilities



Figure 1: Normalized confusion matrix (left column) and posterior probabilities (right column) for all features as input for different classification tasks, obtained by applying NB classifier (hypothesis 2a).







(c) ASWS normalized confusion matrix



(e) KSTS normalized confusion matrix



(g) KSWS normalized confusion matrix



(h) KSWS posterior probabilities



(i) *PS* normalized confusion matrix



(k) HS normalized confusion matrix



(m) PC normalized confusion matrix



(o) HC normalized confusion matrix



(p) HC posterior probabilities



Figure 2: Normalized confusion matrix (left column) and posterior probabilities (right column) for all features as input for different classification tasks, obtained by applying LR classifier (hypothesis 2a).







(c) ASWS normalized confusion matrix



(e) KSTS normalized confusion matrix



(g) KSWS normalized confusion matrix



(h) KSWS posterior probabilities



(i) *PS* normalized confusion matrix



(k) HS normalized confusion matrix



(m) PC normalized confusion matrix



(o) HC normalized confusion matrix



(p) HC posterior probabilities



Figure 3: Normalized confusion matrix (left column) and posterior probabilities (right column) for feature selection combined with the classification tasks, obtained by applying NB classifier (hypothesis 2a).







(c) ASWS normalized confusion matrix



(e) KSTS normalized confusion matrix



(g) KSWS normalized confusion matrix



(h) KSWS posterior probabilities



(i) *PS* normalized confusion matrix



(k) HS normalized confusion matrix



(m) PC normalized confusion matrix



(o) HC normalized confusion matrix



(p) HC posterior probabilities



Figure 4: Normalized confusion matrix (left column) and posterior probabilities (right column) for feature selection combined with the classification tasks, obtained by applying LR classifier (hypothesis 2a).