



$X(t)$ unobservable \dashrightarrow $S_i(\cdot)$ Sensing pathways : noisy, imperfect \dashrightarrow $Y_i(t)$ observable, multiple modalities \dashrightarrow Algorithm comprised of:
 $F(\cdot)$ - data fusion
 $E(\cdot)$ - feature extraction
 $I(\cdot)$ - inference model \dashrightarrow $\hat{X}(t)$ best predictor