

Memory based Neural Networks for EEG identification

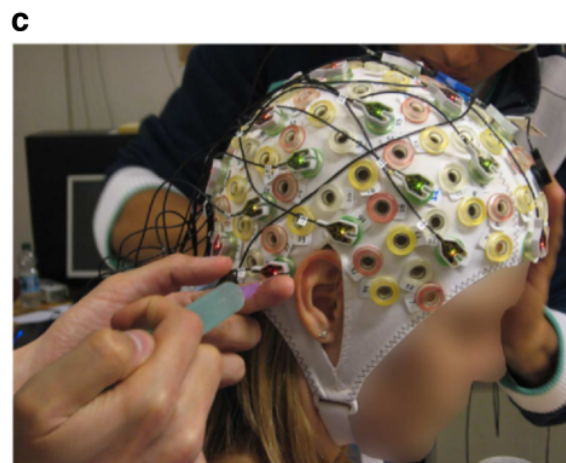
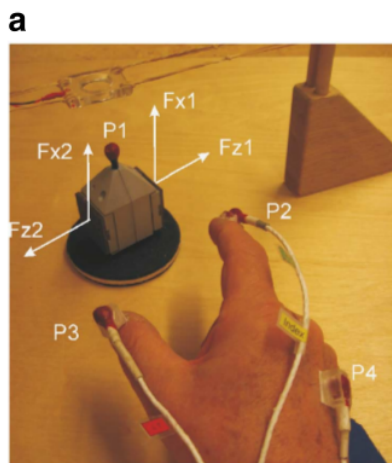
identifying intentions and actions

EEG classification

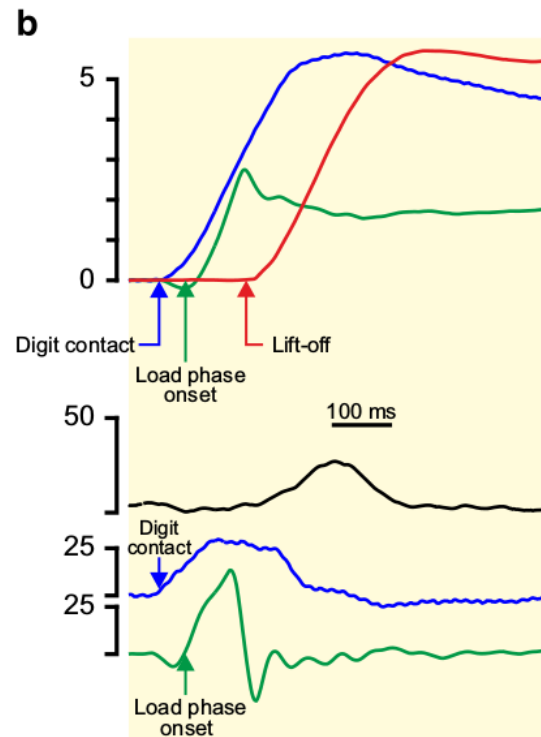
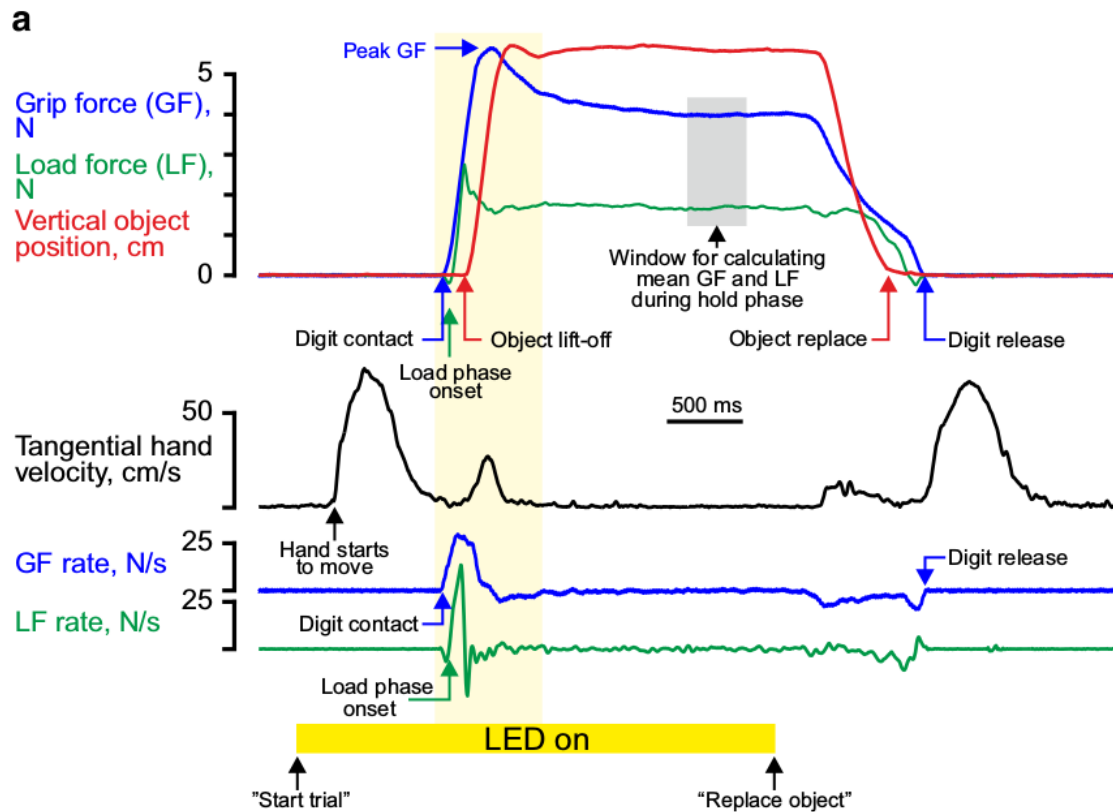
- Use EEG identify actions of grasp and lift tasks
 - Identify phases of actions (reach phase, load phase, etc.)
 - Identify the intentions of actions (grasping, lifting, reaching)
- Using recurrent neural networks
 - simple recurrent neural network
 - Long short term memory
 - Memory based network (Neural Turing Machine)

EEG classification

- Data
 - EEG
 - EMG
 - Kinetic data, Kinematic data

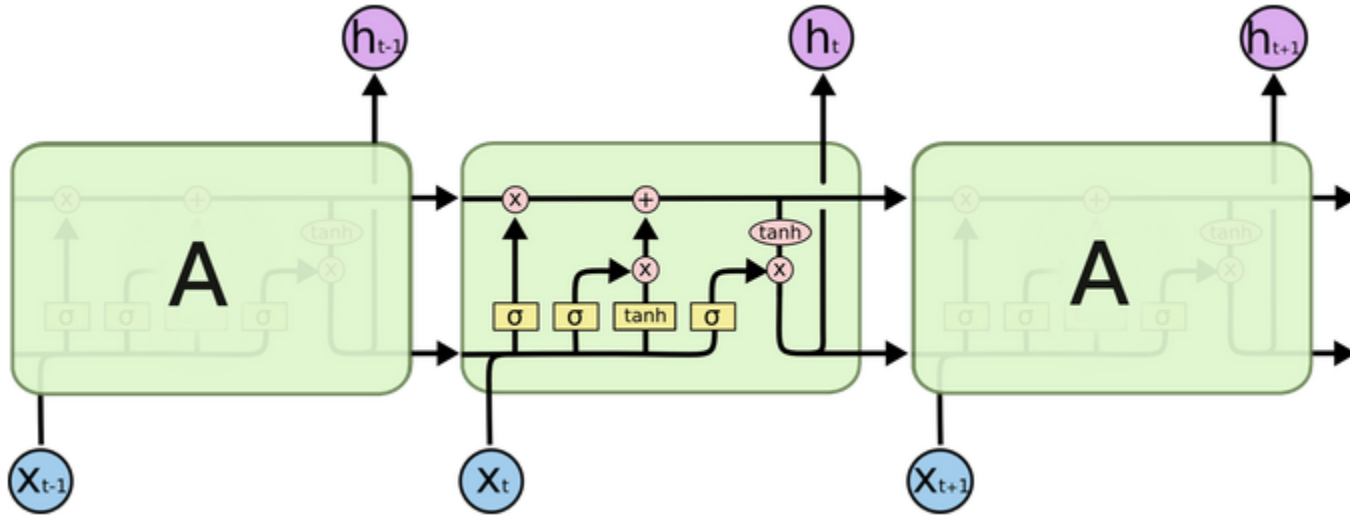


data example



Long short term memory

Able to model long term dependencies



Memory Networks

Turing machine like learner that has a separate module for memories

