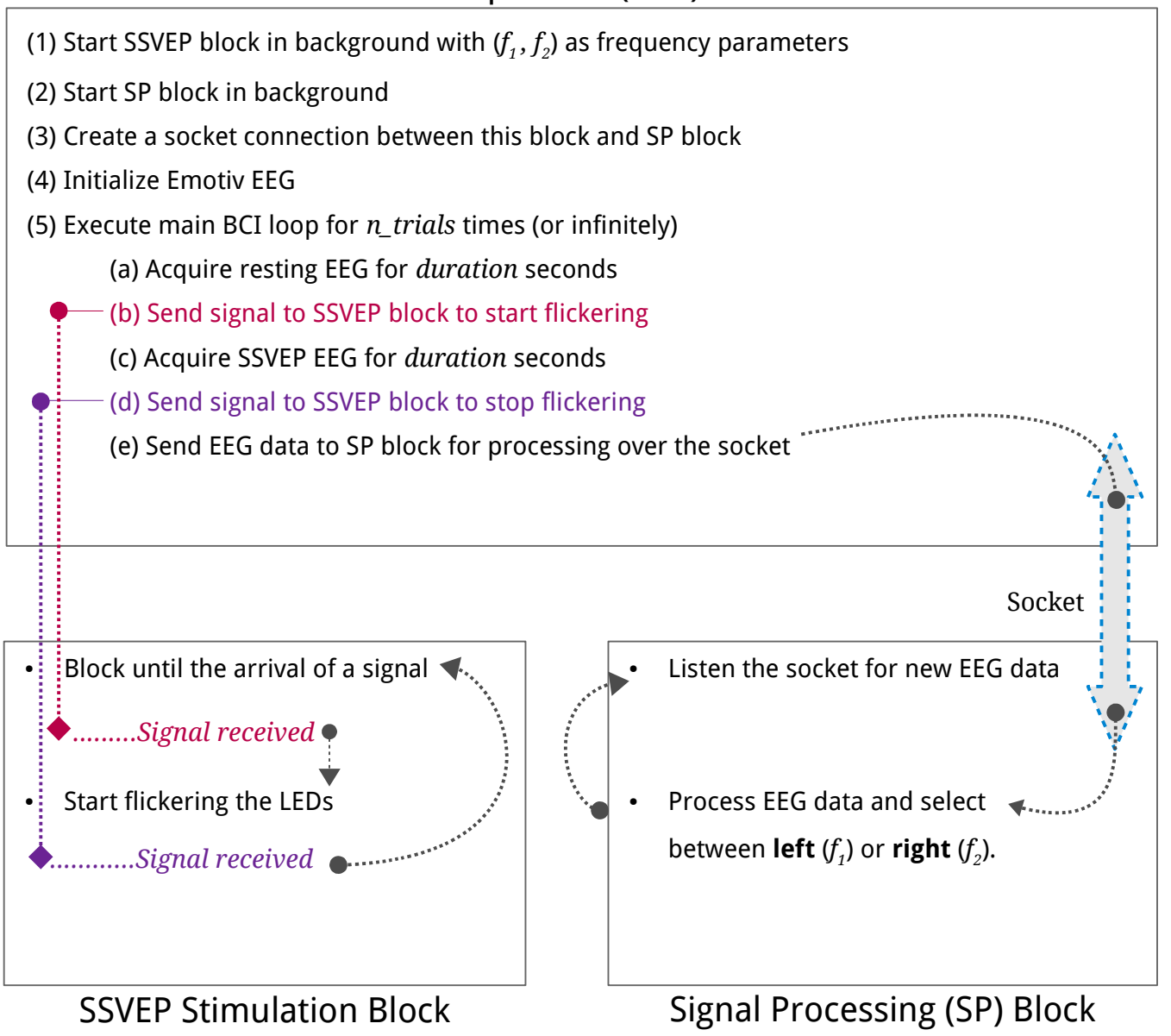
EEG Acquisition (ACK) Block
(1) Start SSVEP block in background with (f_1, f_2) as frequency parameters
(2) Start SP block in background
(3) Create a socket connection between this block and SP block
(4) Initialize Emotiv EEG
(5) Execute main BCI loop for n_trials times (or infinitely)
(a) Acquire resting EEG for $duration$ seconds
(b) Send signal to SSVEP block to start flickering
(c) Acquire SSVEP EEG for $duration$ seconds
(d) Send signal to SSVEP block to stop flickering
(e) Send EEG data to SP block for processing over the socket
Socket
Block until the arrival of a signal
.....Signal received
Start flickering the LEDs
.....Signal received
Listen the socket for new EEG data
Process EEG data and select between left (f_1) or right (f_2).
SSVEP Stimulation Block
Signal Processing (SP) Block