

1. Modify the following texts so that the statements are true (choose the correct word from brackets).

A resistive touchscreen consists of (several / only two) layers, out of which the flexible plastic and glass layers are two important electrically (resistive / conductive) layers.

A capacitive touchscreen also consists of (many spaced / two spaced) layers of glass, which are coated with (conductor / resistor) such as Indium Tin Oxide.

2. Write the gesture types based on the notion of motion:

1. _____
 2. _____
 3. _____
-

3. Choose two main approaches used in Recommendation System scheme:

- linear regression
 - content-based
 - random recommendation
 - collaborative filtering
-

4. Write at least three applications using gesture control (except TV control):

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

5. Which are the technologies used in BCI solutions?

- transcranial magnetic stimulation
- electrocardiography
- electroencephalography
- electrooculography
- electromyography

6. What statements regarding eye tracking are true?

- can be used for mouse navigation
- solutions for HMD (head mounted displays) are not yet available
- there exist mobile binocular solutions
- eye tracker can be mounted below screen/monitor

7. Complete the paragraph with correct words

In a microphone, a _____ reacts to _____ waves with vibration, which is converted into _____ signal. In a _____ microphone, a diaphragm serves as one of the condenser plates. This microphone _____ power source. A dynamic microphone uses _____ inside a coil to produce electrical current when the membrane moves. Such microphone _____ external power source.