

CLAIMS

1. A system comprising:

a biopotential sensor, the biopotential sensor configured to be worn by a person at a wrist and to sense biopotentials at the wrist;

a wrist location sensor, the wrist location sensor configured to be worn at the wrist and to provide wrist location data indicative of a location of the wrist; and

a processor;

wherein the system is configured to:

based on at least the wrist location data from the wrist location sensor, determine a directional vector intended by the person;

based on at least the biopotentials sensed by the biopotential sensor, detect a gesture indicating an intention to make a selection; and

based on the directional vector and the detected gesture, select a target, the selected target being indicated by the directional vector as determined when the gesture indicating the intention to make a selection is detected.

2. The system of claim 1, wherein the target is a geographic location.

3. The system of claim 1, wherein the target is an object.

4. The system of claim 3, wherein the system is further configured to:

after selecting the object based on the directional vector and the detected gesture, control the object;

wherein the step of controlling the object comprises:

based on at least the wrist location data from the wrist location sensor and the biopotentials sensed by the biopotential sensor, determining one or more commands;

transmitting the one or more commands to the object.

5. The system of claim 4, wherein the system is further configured to:
initiate a mode in which the step of controlling the object may be performed;
wherein initiating the mode in which the step of controlling the object may be performed
comprises:

based on one or more of (i) the wrist location data from the wrist location sensor
and (ii) the biopotentials sensed by the biopotential sensor, detecting a wake word
gesture, the wake word gesturing indicating an intention to initiate the mode in which the
step of controlling the object may be performed.

6. The system of claim 1, wherein the step of determining the directional vector intended by
the person is performed based on both:

the wrist location data from the wrist location sensor; and
data indicating a location of the person.

7. The system of claim 6, wherein the data indicating the location of the person is global
positioning system (GPS) data.

8. The system of claim 6, wherein the data indicating the location of the person is based on
triangulation using directions from multiple reference points.

9. The system of claim 6, wherein the step of selecting the target is based on at least:
the directional vector based on (i) the wrist location data from the wrist location sensor
and (ii) the data indicating a location of the person;

the detected gesture based on at least the biopotentials sensed by the biopotential sensor;
and
context data comprising information related to the target.

10. The system of claim 9, wherein the context data comprises a location of the target.
11. The system of claim 9, wherein the context data comprises image data or video data.
12. A system comprising:
 - a biopotential sensor, the biopotential sensor configured to be worn by a person at a wrist and to sense biopotentials at the wrist; and
 - a wrist location sensor, the wrist location sensor configured to be worn at the wrist and to provide wrist location data indicative of a location of the wrist;
 - the system being configured to provide output data based on the biopotentials sensed by the biopotential sensor and the wrist location data sensed by the wrist location sensor to one or more processors configured to:
 - based on at least the wrist location data from the wrist location sensor, determine a directional vector intended by the person;
 - based on at least the biopotentials sensed by the biopotential sensor, detect a gesture indicating an intention to make a selection; and
 - based on the directional vector and the detected gesture, select a target, the selected target being indicated by the directional vector as determined when the gesture indicating the intention to make a selection is detected.
13. The system of claim 12, wherein the target is a geographic location.
14. The system of claim 12, wherein the target is an object.
15. The system of claim 14, wherein the one or more processors are further configured to:
 - after selecting the object based on the directional vector and the detected gesture, control the object;
 - wherein the step of controlling the object comprises:

based on at least the wrist location data from the wrist location sensor and the biopotentials sensed by the biopotential sensor, determining one or more commands;

transmitting the one or more commands to the object.

16. The system of claim 15, wherein the one or more processors are further configured to:
initiate a mode in which the step of controlling the object may be performed;
wherein initiating the mode in which the step of controlling the object may be performed comprises:

based on one or more of (i) the wrist location data from the wrist location sensor and (ii) the biopotentials sensed by the biopotential sensor, detecting a wake word gesture, the wake word gesturing indicating an intention to initiate the mode in which the step of controlling the object may be performed.

17. The system of claim 12, wherein the step of determining the directional vector intended by the person is performed based on both:

the wrist location data from the wrist location sensor; and
data indicating a location of the person.

18. The system of claim 17, wherein the data indicating the location of the person is global positioning system (GPS) data.

19. The system of claim 17, wherein the data indicating the location of the person is based on triangulation using directions from multiple reference points.

20. The system of claim 17, wherein the step of selecting the target is based on at least:

the directional vector based on (i) the wrist location data from the wrist location sensor and (ii) the data indicating a location of the person;

the detected gesture based on at least the biopotentials sensed by the biopotential sensor;
and

context data comprising information related to the target.

21. The system of claim 20, wherein the context data comprises a location of the target.
22. The system of claim 20, wherein the context data comprises image data or video data.