Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A non-transitory computer-readable storage medium comprising instructions for:

obtaining, via one or more sensors of a wearable electronic device in operable communication with [[of]] a computing system, data corresponding to a user attempting to perform a sequence of handwriting motions associated with one or more target inputs while wearing the wearable electronic device of the computing system, wherein:[[;]]

the one or more sensors include a biopotential-signal-sensing component, and the biopotential-signal-sensing component is configured to detect data used to determine respective handwriting motions performed by the user;

identifying, based on at least (i) the data corresponding to the user attempting to perform the sequence of handwriting motions and (ii) the one or more target inputs associated with the sequence of handwriting motions:

a devolved sequence of handwriting motions to suggest to the user for inputting a respective target input of the one or more target inputs, wherein:

the devolved sequence of handwriting motions is a different sequence as compared to the sequence of handwriting motions, and includes fewer handwriting motions as compared to the sequence of handwriting motions; and

causing presentation, via the computing system, of a representation of the devolved sequence of handwriting motions.

2. (Original) The non-transitory computer-readable storage medium of claim 1, further comprising instructions for:

obtaining, via the one or more sensors of the wearable electronic device, other data corresponding to the user attempting to perform the devolved sequence of handwriting motions associated with the respective target input of the one or more target inputs;

identifying, based on at least (i) the other data corresponding to the user attempting to perform the devolved sequence of handwriting motions and (ii) the respective target input of the one or more target inputs:

a refined devolved sequence of handwriting motions to suggest to the user for inputting the respective target input, wherein the refined devolved sequence of handwriting motions is a different sequence as compared to the devolved sequence of handwriting motions identified based on the sequence of handwriting motions; and

causing presentation, via the computing system, of a representation of the refined devolved sequence of handwriting motions.

3. (Original) The non-transitory computer-readable storage medium of claim 2, wherein:

the devolved sequence of handwriting motions is selected from a predefined set of devolved sequences corresponding to particular target inputs; and

the refined devolved sequence is identified via a self-supervised model that is co-adapted based on sequences of handwriting motions performed by the user.

4. (Original) The non-transitory computer-readable storage medium of claim 1, further comprising instructions for:

identifying another devolved sequence of handwriting motions to suggest to the user for inputting a different respective target input of the one or more target inputs, wherein:

the devolved sequence of handwriting motions and the other devolved sequence of handwriting motions individually, and collectively, include fewer handwriting motions as compared to the sequence of handwriting motions.

5. (Original) The non-transitory computer-readable storage medium of claim 1, further comprising instructions for:

in accordance with determining that removing one or more handwriting motions of the sequence of handwriting motions would reduce an accuracy of detecting target inputs by less than a threshold error rate:

identifying the devolved sequence of handwriting motions includes determining the devolved sequence of handwriting motions by removing the one or more handwriting motions from the sequence of handwriting motions that was performed by the user.

6. (Original) The non-transitory computer-readable storage medium of claim 1, further comprising instructions for:

based on the data corresponding to the sequence of handwriting motions from the one or more sensors of the wearable electronic device:

identifying a plurality of devolved sequences of handwriting motions to suggest to the user for inputting the respective target input, including the devolved sequence of handwriting motions; and

causing presentation, via the computing system, of a plurality of representations, each respective representation corresponding to one of the plurality of devolved sequences of handwriting motions.

7. (Original) The non-transitory computer-readable storage medium of claim 1, further comprising instructions for:

based on the data corresponding to the sequence of handwriting motions, applying a co-adaptation to an input detection model used to identify the devolved sequence of handwriting motions, wherein the co-adaptation is based on user-specific aspects of performance of one or more respective handwriting motions of the sequence of handwriting motions; and

using the co-adaptation to the input detection model to detect a different sequence of handwriting motions corresponding to one or more different target inputs.

8. (Canceled)

9. (Canceled)

10. (Currently Amended) A method, comprising:

obtaining, via one or more sensors of a wearable electronic device <u>in operable communication with</u> [[of]] a computing system, data corresponding to a user attempting

to perform a sequence of handwriting motions associated with one or more target inputs while wearing the wearable electronic device of the computing system, wherein:[[;]]

the one or more sensors include a biopotential-signal-sensing component, and the biopotential-signal-sensing component is configured to detect data used to determine respective handwriting motions performed by the user;

identifying, based on at least (i) the data corresponding to the user attempting to perform the sequence of handwriting motions and (ii) the one or more target inputs associated with the sequence of handwriting motions:

a devolved sequence of handwriting motions to suggest to the user for inputting a respective target input of the one or more target inputs, wherein:

the devolved sequence of handwriting motions is a different sequence as compared to the sequence of handwriting motions, and includes fewer handwriting motions as compared to the sequence of handwriting motions; and

causing presentation, via the computing system, of a representation of the devolved sequence of handwriting motions.

11. (Original) The method of claim 10, further comprising:

obtaining, via the one or more sensors of the wearable electronic device, other data corresponding to the user attempting to perform the devolved sequence of handwriting motions associated with the respective target input of the one or more target inputs;

identifying, based on at least (i) the other data corresponding to the user attempting to perform the devolved sequence of handwriting motions and (ii) the respective target input of the one or more target inputs:

a refined devolved sequence of handwriting motions to suggest to the user for inputting the respective target input, wherein the refined devolved sequence of handwriting motions is a different sequence as compared to the devolved sequence of handwriting motions identified based on the sequence of handwriting motions; and

causing presentation, via the computing system, of a representation of the refined devolved sequence of handwriting motions.

12. (Original) The method of claim 11, wherein:

the devolved sequence of handwriting motions is selected from a predefined set of devolved sequences corresponding to particular target inputs; and

the refined devolved sequence is identified via a self-supervised model that is co-adapted based on sequences of handwriting motions performed by the user.

13. (Original) The method of claim 10, further comprising:

identifying another devolved sequence of handwriting motions to suggest to the user for inputting a different respective target input of the one or more target inputs, wherein:

the devolved sequence of handwriting motions and the other devolved sequence of handwriting motions individually, and collectively, include fewer handwriting motions as compared to the sequence of handwriting motions.

14. (Original) The method of claim 10, further comprising:

in accordance with determining that removing one or more handwriting motions of the sequence of handwriting motions would reduce an accuracy of detecting target inputs by less than a threshold error rate:

identifying the devolved sequence of handwriting motions includes determining the devolved sequence of handwriting motions by removing the one or more handwriting motions from the sequence of handwriting motions that was performed by the user.

15. (Original) The method of claim 10, further comprising:

based on the data corresponding to the sequence of handwriting motions from the one or more sensors of the wearable electronic device:

identifying a plurality of devolved sequences of handwriting motions to suggest to the user for inputting the respective target input, including the devolved sequence of handwriting motions; and

causing presentation, via the computing system, of a plurality of representations, each respective representation corresponding to one of the plurality of devolved sequences of handwriting motions.

16. (Currently Amended) A computing system, comprising:

a wearable electronic device comprising:

one or more sensors in operable communication with the computing system; and

one or more processors configured to:

obtain, via the one or more sensors of the[[a]] wearable electronic device of the[[a]] computing system, data corresponding to a user attempting to perform a sequence of handwriting motions associated with one or more target inputs while wearing the wearable electronic device of the computing system, wherein:[[;]]

the one or more sensors include a biopotential-signal-sensing component, and the biopotential-signal-sensing component is configured to detect data used to determine respective handwriting motions performed by the user;

identify, based on at least (i) the data corresponding to the user attempting to perform the sequence of handwriting motions and (ii) the one or more target inputs associated with the sequence of handwriting motions:

a devolved sequence of handwriting motions to suggest to the user for inputting a respective target input of the one or more target inputs, wherein:

the devolved sequence of handwriting motions is a different sequence as compared to the sequence of handwriting motions, and includes fewer handwriting motions as compared to the sequence of handwriting motions; and

cause presentation, via the computing system, of a representation of the devolved sequence of handwriting motions.

17. (Original) The computing system of claim 16, wherein the one or more processors are further configured to:

obtain, via the one or more sensors of the wearable electronic device, other data corresponding to the user attempting to perform the devolved sequence of handwriting motions associated with the respective target input of the one or more target inputs;

identify, based on at least (i) the other data corresponding to the user attempting to perform the devolved sequence of handwriting motions and (ii) the respective target input of the one or more target inputs:

a refined devolved sequence of handwriting motions to suggest to the user for inputting the respective target input, wherein the refined devolved sequence of handwriting motions is a different sequence as compared to the devolved sequence of handwriting motions identified based on the sequence of handwriting motions; and

cause presentation, via the computing system, of a representation of the refined devolved sequence of handwriting motions.

18. (Original) The computing system of claim 17, wherein:

the devolved sequence of handwriting motions is selected from a predefined set of devolved sequences corresponding to particular target inputs; and

the refined devolved sequence is identified via a self-supervised model that is co-adapted based on sequences of handwriting motions performed by the user.

19. (Currently Amended) The computing system of claim 16, wherein the one or more processors are further configured to:

identify~~ing~~ another devolved sequence of handwriting motions to suggest to the user for inputting a different respective target input of the one or more target inputs, wherein:

the devolved sequence of handwriting motions and the other devolved sequence of handwriting motions individually, and collectively, include fewer handwriting motions as compared to the sequence of handwriting motions.

20. (Original) The computing system of claim 16, wherein the one or more processors are further configured to:

in accordance with determining that removing one or more handwriting motions of the sequence of handwriting motions would reduce an accuracy of detecting target inputs by less than a threshold error rate:

identify the devolved sequence of handwriting motions includes determining the devolved sequence of handwriting motions by removing the one or more handwriting motions from the sequence of handwriting motions that was performed by the user.

21. (New) The method of claim 10, further comprising:

based on the data corresponding to the sequence of handwriting motions, applying a co-adaptation to an input detection model used to identify the devolved sequence of handwriting motions, wherein the co-adaptation is based on user-specific aspects of performance of one or more respective handwriting motions of the sequence of handwriting motions; and

using the co-adaptation to the input detection model to detect a different sequence of handwriting motions corresponding to one or more different target inputs.

22. (New) The computing system of claim 16, wherein the one or more processors are further configured to:

based on the data corresponding to the sequence of handwriting motions from the one or more sensors of the wearable electronic device:

identify a plurality of devolved sequences of handwriting motions to suggest to the user for inputting the respective target input, including the devolved sequence of handwriting motions; and

cause presentation, via the computing system, of a plurality of representations, each respective representation corresponding to one of the plurality of devolved sequences of handwriting motions.