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Deep Fisher Discriminant Learning for Mobile Hand Gesture Recognition

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Highlights

- we collect a large mobile gesture database using an Andriod Huawei device, which is the largest database in published studies for mobile gesture recongnition systems.
- we incorporate Fisher criterion into BiLSTM network and propose F-BiLSTM and F-BiGRU to improve the traditional softmax loss training function.
- Extensive experiments on our MGD, BUAA Mobile Gesture database, and a public database are conducted to verify the superior performance of the proposed networks.

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