CLAIMS

What is claimed is:

1. A risk control model training method, comprising:

obtaining historical data in a specified time period, and dividing the specified time period into sub time periods;

for each sub time period, determining respective features of the historical data in the sub time period based on the historical data;

sorting respective features of the historical data in the sub time periods based on a specified sorting rule of the sub time periods to obtain a feature sequence; and

training a risk control model by using the feature sequence as a sample to represent a change process of the historical data, wherein the risk control model is a convolutional neural network model.

2. The method according to claim 1, wherein determining the respective features of the historical data in the sub time period specifically comprises:

for each predetermined feature type, determining respective features of the historical data corresponding to the feature type in the sub time period;

sorting the respective features of the historical data in the sub time periods to obtain a feature sequence specifically comprises:

for each feature type, sorting features of the historical data corresponding to the feature type in the sub time periods to obtain a feature sequence corresponding to the feature type; and

the training a risk control model by using the feature sequence as a sample specifically comprises:

training the risk control model by using the feature sequence corresponding to each feature type as a sample.

3. The method according to claim 2, wherein the sorting features of the historical data corresponding to the feature type in the sub time periods to obtain a feature sequence corresponding to the feature type specifically comprises:

performing normalization processing on the features of the historical data corresponding to the feature type in the sub time periods; and

sorting processed features to obtain a feature sequence corresponding to the feature type.

4. The method according to claim 1, wherein at least one of a row quantity or a column quantity of a convolution kernel of a convolutional layer in the convolutional neural network model is a predetermined quantity of feature types.

5. A risk control method, comprising:

obtaining service data in a specified time period, and dividing the specified time period into sub time periods;

for each sub time period, determining respective features of the service data in the sub time period based on the service data;

sorting respective features of the service data in the sub time periods based on a specified sorting rule of the sub time periods to obtain a feature sequence; and

identifying whether the service data is legal by inputting the feature sequence into the risk control model trained according to the method in any one of claims 1 to 4.

6. A risk control model training apparatus, comprising:

an acquisition module, configured to obtain historical data in a specified time period, and divide the specified time period into sub time periods;

a determining module, configured to: for each sub time period, determine respective features of the historical data in the sub time period based on the historical data;

a sorting module, configured to sort respective features of the historical data in the sub time periods based on a specified sorting rule of the sub time periods to obtain a feature sequence; and

a training module, configured to train a risk control model by using the feature sequence as a sample to represent a change process of the historical data, wherein the risk control model is a convolutional neural network model.

7. The apparatus according to claim 6, wherein the determining module is configured to: for each predetermined feature type, determine respective features of the historical data corresponding to the feature type in the sub time period;

the sorting module is configured to: for each feature type, sort features of the historical data corresponding to the feature type in the sub time periods to obtain a feature sequence corresponding to the feature type; and

the training module is specifically configured to: train the risk control model by using the feature sequence corresponding to each feature type as a sample.

8. The apparatus according to claim 7, wherein the sorting module is configured to perform normalization processing on the features of the historical data corresponding to the feature type in the sub time periods; and sort processed features to obtain a feature sequence corresponding to the feature type.

9. The apparatus according to claim 6, wherein at least one of a row quantity or a column quantity of a convolution kernel of a convolutional layer in the convolutional neural network model is a predetermined quantity of feature types.

10. A risk control apparatus, comprising:

an acquisition module, configured to obtain service data in a specified time period, and divide the specified time period into sub time periods;

a determining module, configured to: for each sub time period, determine respective features of the service data in the sub time period based on the service data;

a sorting module, configured to sort respective features of the service data in the sub time periods based on a specified sorting rule of the sub time periods to obtain a feature sequence; and

an identification module, configured to identify whether the service data is legal by inputting the feature sequence into the risk control model trained according to the method in any one of claims 1 to 4.

11. A risk control model training device, comprising one or more processors and one or more memories, wherein the memory stores a program, and the one or more processors are configured to perform following steps:

obtaining historical data in a specified time period, and dividing the specified time period into sub time periods;

for each sub time period, determining respective features of the historical data in the sub time period based on the historical data;

sorting respective features of the historical data in the sub time periods based on a specified sorting rule of the sub time periods to obtain a feature sequence; and

training a risk control model by using the feature sequence as a sample to represent a change process of the historical data, wherein the risk control model is a convolutional neural network model.

12. A risk control device, comprising one or more processors and one or more memories, wherein the memory stores a program, and the one or more processors are configured to perform following steps:

obtaining service data in a specified time period, and dividing the specified time

period into sub time periods;

for each sub time period, determining respective features of the service data in the sub time period based on the service data;

sorting respective features of the service data in the sub time periods based on a specified sorting rule of the sub time periods to obtain a feature sequence; and

identifying whether the service data is legal by inputting the feature sequence into the risk control model trained according to the method in any one of claims 1 to 4.