

CLAIMS

1. A method for allocation of virtual resources, the method comprising:

receiving evaluation results of a plurality of users that are uploaded by a plurality of data providers, wherein the evaluation results are obtained after the plurality of data providers evaluate the plurality of users respectively based on evaluation models of the plurality of data providers;

constructing a plurality of training samples by using the evaluation results uploaded by the plurality of data providers as training data, wherein each training sample comprises evaluation results of one of the plurality of users that are uploaded by the plurality of data providers;

generating a label for each training sample based on an actual service execution status of a respective user;

training a model based on the plurality of training samples and the label of each training sample, using a coefficient of each variable in the trained models as a contribution level of each data provider; and

allocating the virtual resources to each data provider based on the contribution level of each data provider.

2. The method according to claim 1, wherein the trained model is a linear model.

3. The method according to claim 1, wherein the number of virtual resources allocated to each data provider is directly proportional to the contribution level of each data provider.

4. The method according to claim 1, further comprising:

receiving evaluation results of a particular user that are uploaded by the plurality of data providers, and inputting the evaluation results to the trained model to obtain a final evaluation result of the respective user.

5. The method according to claim 3, wherein the virtual resource is a user data usage fund

distributed to each data provider.

6. The method according to claim 1, wherein the evaluation model is a user risk evaluation model, the evaluation result is risk score, and the label indicates whether the respective user is a risky user.

7. The method according to claim 1, wherein the trained model comprises a machine learning model.

8. The method according to claim 7, wherein the machine learning model comprises a logistic regression model.

9. The method according to claim 1, further comprising:
 generating a data feature vector for each training sample based on data feature values extracted based on dimensions of a respective training sample; and
 constructing a target matrix based on the data feature vector of each data sample.

10. An apparatus for allocation of virtual resources, the apparatus comprising:
 a receiving module, configured to receive evaluation results of a plurality of users that are uploaded by a plurality of data providers, wherein the evaluation results are obtained after the plurality of data providers evaluate the plurality of users respectively based on evaluation models of the plurality of data providers;

a training module, configured to construct a plurality of training samples by using the evaluation results uploaded by the plurality of data providers as training data, wherein each training sample comprises evaluation results of one the plurality of users that are uploaded by the plurality of data providers;

generating a label for each training sample based on an actual service execution status of a respective user; and

an allocation module, configured to train a model based on the plurality of training samples and the label of each training sample, use a coefficient of each variable in the trained models as the contribution level of each data provider, and allocate virtual resources to each data provider

based on the contribution level of each data provider.

11. The apparatus according to claim 10, wherein the trained model is a linear model.

12. The apparatus according to claim 10, wherein the number of virtual resources allocated to each data provider is directly proportional to the contribution level of each data provider.

13. The apparatus according to claim 10, further comprising:

an evaluation module, configured to receive evaluation results of a particular user that are uploaded by the plurality of data providers, and input the evaluation results to the trained model to obtain a final evaluation result of the respective user.

14. The apparatus according to claim 10, wherein the virtual resources comprise a user data usage fund distributed to each data provider.

15. The apparatus according to claim 10, wherein the evaluation model is a user risk evaluation model, the evaluation result is risk score, and the label indicates whether the respective user is a risky user.

16. A modeling method for modeling allocation of virtual resources, the method comprising:
receiving evaluation results of a plurality of users that are uploaded by a plurality of data providers, wherein the evaluation results are obtained after the plurality of data providers evaluate the plurality of users respectively based on evaluation models of the plurality of data providers;

constructing a plurality of training samples by using the evaluation results uploaded by the plurality of data providers as training data, wherein each training sample comprises evaluation results of the same user that are uploaded by the plurality of data providers;

generating a label for each training sample based on an actual service execution status of the respective user; and

training a model based on the plurality of training samples and the label of each training sample, to obtain a trained model.

17. The method according to claim 16, wherein the trained model is a linear model.

18. The method according to claim 16, wherein the evaluation model is a user risk evaluation model, the evaluation result is risk score, and the label indicates whether the respective user is a risky user.

19. A method for performing data prediction by using the established model according to any one of claims 16 to 18, the method comprising:

receiving evaluation results of a particular user that are uploaded by a plurality of data providers; and

inputting the evaluation results to the trained model to obtain a final evaluation result of the respective user.

20. A system for allocation of virtual resources, the system comprising:

servers of a plurality of data providers, configured to upload evaluation results of plurality of users to a server of a risk evaluator, wherein the evaluation results are obtained after the plurality of data providers evaluate the plurality of users respectively based on evaluation models of the plurality of data providers; and

the server of the risk evaluator, configured to perform operations comprising:

constructing a plurality of training samples by using the evaluation results uploaded by the plurality of data providers as training data, wherein each training sample comprises evaluation results of one of the plurality of users that are uploaded by the plurality of data providers,

generating a label for each training sample based on an actual service execution status of a respective user,

training a model based on the plurality of training samples and the label of each training sample, use a coefficient of each variable in the trained models as the contribution level of each data provider, and

allocating virtual resources to each data provider based on the contribution level of each data provider.

21. An electronic device, the device comprising:
a processor; and
a memory, configured to store machine executable instructions, wherein
by reading and executing the machine executable instructions that are stored in the memory
and that correspond to control logic of virtual resource allocation, the processor is prompted to
perform the following operations:

receiving evaluation results of plurality of users that are uploaded by a plurality of data providers, wherein the evaluation results are obtained after the plurality of data providers evaluate the plurality of users respectively based on evaluation models of the plurality of data providers;

constructing plurality of training samples by using the evaluation results uploaded by the plurality of data providers as training data, wherein each training sample comprises evaluation results of one of the plurality of users that are uploaded by the plurality of data providers, and the training sample is labeled based on an actual service execution status of a respective user; and

training a model based on the plurality of training samples and the label of each training sample, using a coefficient of each variable in the trained models as the contribution level of each data provider, and allocating virtual resources to each data provider based on the contribution level of each data provider.