CLAIMS:

1. A method for information updating, comprising:

obtaining a response result of a object to a item, the response result indicating a successful response or a failure response of the object to the item;

determining a capability update amount for the object based on capability information of the object, attribute information of the item, and the response result, wherein the capability information of the object comprises at least one of the following: overall capability information of the object indicating an overall capability level of the object among a plurality of measurement branches at a plurality of hierarchical levels in an item hierarchy, and local capability information of the object at at least one measurement branch at at least one hierarchical level in the item hierarchy, the item being related to examination of the at least one measurement branch; and

updating the capability information of the object based on the capability update amount, to obtain updated capability information of the object.

2. The method of claim 1, wherein the overall capability information indicates a probability distribution followed by the overall capability level of the object, and

wherein the local capability information on each of the at least one measurement branch indicates a probability distribution followed by a local capability level of the object on the measurement branch.

3. The method of claim 1, wherein the capability information of the object is iteratively updated with responses of a plurality of items executed by the object, and the capability information of the object is initialized in the first iteration.

4. The method of claim 1, wherein determining the capability update amount for the object comprises:

in accordance with a determination that the response result indicates the successful response of the object to the item, determining a first capability update amount for the object; and

in accordance with a determination that the response result indicates the failure response of the object to the item, determining a second capability update amount for

the object, the second capability update amount being different from the first capability update amount.

5. The method of claim 1, further comprising:

determining an attribute update amount for the item based on the capability information of the object, the attribute information of the item, and the response result; and

updating the attribute information of the item based on the attribute update amount, to obtain updated attribute information of the item.

6. The method of claim 5, wherein the attribute information of the item is iteratively updated with the responses of the item executed by a plurality of objects, and determining the attribute update amount for the item comprises:

determining whether a change degree of the attribute information of the item in a plurality of historical iteration updates exceeds a change threshold; and

in accordance with a determination that the change degree of the attribute information of the item in the plurality of historical iteration updates exceeds the change threshold, determining the attribute update amount for the item.

7. The method of claim 5, further comprising:

determining, using a predetermined item response theory model, a predicted response result of a further object to the item based on the updated attribute information of the item and capability information of the further object.

8. The method of claim 1, further comprising:

determining, using a predetermined item response theory model, a predicted response result of the object to a further item based on the updated capability information of the object and attribute information of the further item.

9. The method of claim 8, wherein the capability information of the object comprises: overall capability information of the object and local capability information of the object at at least one further measurement branch of at least one hierarchical level in an item hierarchy, the further item being related to the at least one further measurement branch, and

wherein determining the predicted response result comprises:

obtaining a respective weight value for the at least one further measurement branch;

weighting the local capability information at the at least one measurement branch based on the respective weight value of the at least one further measurement branch, to obtain the weighted local capability information; and

determining, using the item response theory model, the predicted response result of the object to the further item based on the overall capability information, the weighted local capability information, and the attribute information of the further item.

10. The method of any one of claims 1 to 9, wherein the item comprises a test question, and the object comprises a testee who answers the test question; or

wherein the item comprises a recommendation item, and the object comprises a recommended object; or

wherein the item comprises a competitor, and the object comprises a participating team or a team member.

11. The method of any one of claims 1 to 9, wherein the attribute information of the item indicates at least one of the following: a difficulty of the item, a discrimination of the item, and a correct probability in pseudo-guessing of the item.

12. An apparatus for information updating, comprising:

an obtaining module configured to obtain a response result of a object to a item, wherein the response result indicates a successful response or a failure response of the object to the item;

a determining module configured to determine a capability update amount for the object based on the capability information of the object, wherein the attribute information of the item and the response result, wherein the capability information of the object comprises at least one of the following: overall capability information of the object indicating an overall capability level of the object among a plurality of measurement branches at a plurality of hierarchical levels in an item hierarchy, and local capability information of the object at at least one measurement branch at at least one hierarchical level in the item hierarchy, the item being related to examination of the at least one measurement branch; and

an updating module configured to update the capability information of the object based on the capability update amount, to obtain updated capability information of the object.

13. The apparatus of claim 12, wherein the overall capability information indicates a probability distribution followed by the overall capability level of the object, and

wherein the local capability information on each of the at least one measurement branch indicates a probability distribution followed by a local capability level of the object on the measurement branch.

14. The apparatus of claim 12, wherein the capability information of the object is iteratively updated with responses of a plurality of items executed by the object, and the capability information of the object is initialized in the first iteration.

15. The apparatus of claim 12, further comprising:

an attribute update determining module configured to determine an attribute update amount for the item based on the capability information of the object, the attribute information of the item, and the response result; and

an attribute updating module configured to update the attribute information of the item based on the attribute update amount, to obtain updated attribute information of the item.

16. The apparatus of claim 15, wherein the attribute information of the item is iteratively updated with the responses of the item executed by a plurality of objects, and wherein the attribute update determining module comprises:

a change determining module configured to determine whether a change degree of the attribute information of the item in a plurality of historical iteration updates exceeds a change threshold; and

a change-based updating module configured to determine the attribute update amount for the item in accordance with a determination that the change degree of the attribute information of the item in a plurality of historical iteration updates exceeds the change threshold.

17. An electronic device, comprising:

at least one processing unit; and

at least one memory coupled to the at least one processing unit and storing instructions executable by the at least one processing unit, the instructions, when executed by the at least one processing unit, causing the device to perform the method according to any of claims 1 to 11.

18. A computer-readable storage medium having a computer program stored thereon which, when executed by a processor, performs the method according to any of claims 1 to 11.