CLAIMS

What is claimed is:

1. A policy risk positioning method, comprising:

constructing a to-be-applied policy in response to a drag-and-drop operation on a control in a canvas region, the to-be-applied policy being used for automatically trading an underlying object;

detecting a global composition of all controls in the canvas region in response to meeting a first policy detection condition, to obtain a global detection result, wherein the global detection result is used to indicate at least one of a quantity of all the controls, a quantity of market underlying objects, and existence of a control with a predetermined node type in the canvas region, wherein the control with the predetermined node type comprises an island control and/or a leaf node control with a node type being a non-event box;

detecting an internal parameter of each control in the canvas region in response to meeting a second policy detection condition, to obtain an intra-control detection result, wherein the intra-control detection result is used to indicate at least one of legitimacy of the internal parameter of each control and a logical legitimacy of a condition extracted based on the internal parameter, wherein the legitimacy of the internal parameter is detected based on whether a global variable is used and/or whether a required parameter is omitted;

detecting a connection relationship between adjacent controls in the canvas region in response to meeting a third policy detection condition, to obtain an inter-control detection result, wherein the inter-control detection result is used to indicate a definition of an exit connection line of a control with a node type being a condition box, wherein the definition of the exit connection line comprises Yes or No; and

positioning a risk existing in the to-be-applied policy based on the global detection result, the intra-control detection result and the inter-control detection result.

2. The method according to claim 1, wherein:

said detecting the global composition of all the controls in the canvas region in response to meeting the first policy detection condition to obtain the global detection result comprises: traversing an internal function of each condition control in response to meeting the first policy detection condition; and obtaining, based on a function name of the internal function and a parameter name of the internal function, the quantity of the market underlying objects used by all condition controls in the canvas region, to obtain a global detection result indicating the quantity of the market underlying objects; and

said positioning the risk existing in the to-be-applied policy based on the global detection

result, the intra-control detection result and the inter-control detection result comprises: determining, when the quantity of the market underlying objects indicated by the global detection result is greater than a predetermined underlying object quantity threshold, that the to-be-applied policy has a risk in terms of the quantity of the market underlying objects.

3. The method according to claim 1, wherein:

said detecting the global composition of all the controls in the canvas region in response to meeting the first policy detection condition to obtain the global detection result comprises: detecting, in response to meeting the first policy detection condition, the island control isolated from a start box of the to-be-applied policy, to obtain a global detection result indicating the island control; and

said positioning the risk existing in the to-be-applied policy based on the global detection result, the intra-control detection result and the inter-control detection result comprises: positioning, based on the island control indicated by the global detection result, the island control; and determining that the to-be-applied policy has a risk in terms of the island control.

4. The method according to claim 3, wherein said detecting the island control isolated from the start box of the to-be-applied policy comprises:

traversing controls downwards level by level along a path where the start box is located to obtain a set of traversed controls; and

eliminating the set of the traversed controls from all the controls in the canvas region, and determining each of the remaining controls of all the controls in the canvas region as the island control.

5. The method according to claim 3, wherein said detecting the island control isolated from the start box of the to-be-applied policy comprises:

traversing controls upwards level by level along a path where a leaf node control is located, until a vertex node control located at a vertex of the path where the leaf node control is located is traversed; and

determining, in response to determining that a node type of the vertex node control is not a start box, each of the control traversed along the path where the leaf node control is located as the island control.

6. The method according to claim 1, wherein:

said detecting the global composition of all the controls in the canvas region in response to meeting the first policy detection condition to obtain the global detection result comprises: detecting, in response to meeting the first policy detection condition, a node type of each leaf node control, to obtain a global detection result indicating the leaf node control with the node

type being the non-event box; and

said positioning the risk existing in the to-be-applied policy based on the global detection result, the intra-control detection result and the inter-control detection result comprises: positioning, based on the leaf node control with the node type being the non-event box as indicated by the global detection result, the leaf node control with the node type being the non-event box; and determining that the to-be-applied policy has a risk in terms of the leaf node control with the node type being the non-event box.

7. The method according to claim 1, wherein the first policy detection condition comprises a detection of a backtest operation performed on the to-be-applied policy, a detection of a live trading operation performed on the to-be-applied policy, and a detection of a logic verification operation performed on the to-be-applied policy.

8. The method according to claim 1, wherein:

said detecting the internal parameter of each control in the canvas region in response to meeting the second policy detection condition to obtain the intra-control detection result comprises: traversing the internal parameter of each control in response to meeting the second policy detection condition; and determining, based on a global variable used by the internal parameter, a global variable missed by the control, to obtain an intra-control detection result indicating the global variable missed by the control; and

said positioning the risk existing in the to-be-applied policy based on the global detection result, the intra-control detection result and the inter-control detection result comprises: determining, based on the global variable missed by the control as indicated by the intra-control detection result, that the to-be-applied policy has a risk in terms of the global variable missed by the control.

9. The method according to claim 1, wherein:

said detecting the internal parameter of each control in the canvas region in response to meeting the second policy detection condition to obtain the intra-control detection result comprises: determining, in response to meeting the second policy detection condition, logical legitimacy of a combinatorial condition in the to-be-applied policy based on the detected internal parameter of each control, to obtain an intra-control detection result indicating the logical legitimacy of the combinatorial condition; and

said positioning the risk existing in the to-be-applied policy based on the global detection result, the intra-control detection result and the inter-control detection result comprises: positioning a logically illegal combinatorial condition in the to-be-applied policy based on the logical legitimacy of the combinatorial condition, and determining that the to-be-applied policy

has a risk in terms of the logically illegal combinatorial condition.

10. The method according to claim 1, wherein the second policy detection condition comprises a detection of an edit operation performed on the control.

11. The method according to claim 1, wherein:

said detecting the connection relationship between the adjacent controls in the canvas region in response to meeting the third policy detection condition to obtain the inter-control detection result comprises: detecting, in response to meeting the third policy detection condition, a control with a node type being a condition box; and determining a definition of the exit connection line of the condition box, to obtain an inter-control detection result indicating the definition of the exit connection line; and

said positioning the risk existing in the to-be-applied policy based on the global detection result, the intra-control detection result and the inter-control detection result comprises: positioning an incorrect connection line of the condition box based on the definition of the exit connection line indicated by the inter-control detection result; and determining that the to-be-applied policy has a risk in terms of the incorrect connection line.

12. The method according to claim 1, wherein the third policy detection condition comprises a detection of a remove operation performed on the control and a detection of a line connection operation performed on the control.

13. A policy risk positioning apparatus, comprising:

a policy construction module configured to construct a to-be-applied policy in response to a drag-and-drop operation on a control in a canvas region;

a global detection module configured to detect a global composition of all controls in the canvas region in response to meeting a first policy detection condition, to obtain a global detection result, wherein the global detection result is used to indicate at least one of a quantity of all the controls, a quantity of market underlying objects, and existence of a control with a predetermined node type in the canvas region, wherein the control with the predetermined node type comprises an island control and/or a leaf node control with a node type being a non-event box;

an intra-control detection module configured to detect an internal parameter of each control in the canvas region in response to meeting a second policy detection condition, to obtain an intra-control detection result, wherein the intra-control detection result is used to indicate at least one of legitimacy of the internal parameter of each control and a logical legitimacy of a condition extracted based on the internal parameter, wherein the legitimacy of the internal parameter is detected based on whether a global variable is used and/or whether a

required parameter is omitted;

an inter-control detection module configured to detect a connection relationship between adjacent controls in the canvas region in response to meeting a third policy detection condition, to obtain an inter-control detection result, wherein the inter-control detection result is used to indicate a definition of an exit connection line of a control with a node type being a condition box, wherein the definition of the exit connection line comprises Yes or No; and

a risk positioning module configured to position a risk existing in the to-be-applied policy based on the global detection result, the intra-control detection result and the inter-control detection result.

14. An electronic device, comprising:

one or more processors; and

a storage device having one or more programs stored thereon, wherein the one or more programs, when executed by the one or more processors, cause the electronic device to perform the method according to any one of claims 1 to 12.

15. A computer-readable storage medium, having computer-readable instructions stored thereon, wherein the computer-readable instructions, when executed by a processor of a computer, cause the computer to perform the method according to any one of claims 1 to 12.